doubtnut
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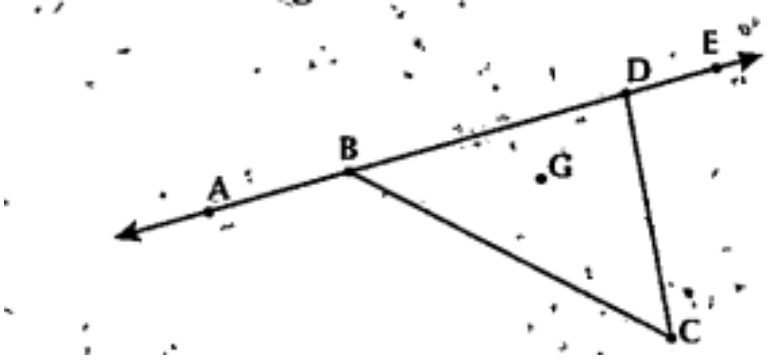
# MATHS

# BOOKS - SRS PUBLICATION

# LINES AND ANGLES

## Question Bank

**1.** Observe the figure and name the points ,linesegments ,rays and lines from the figure

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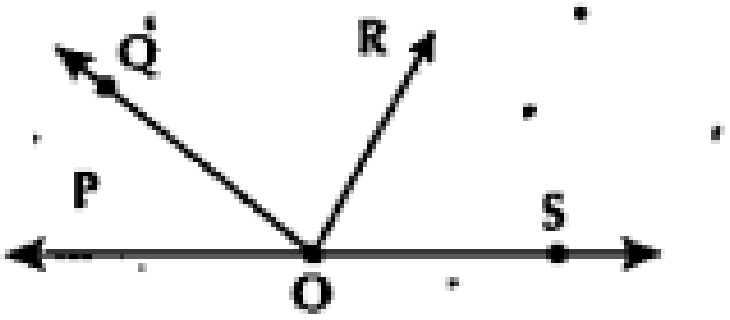
**2.** Name any three possible angles in the adjacent figure



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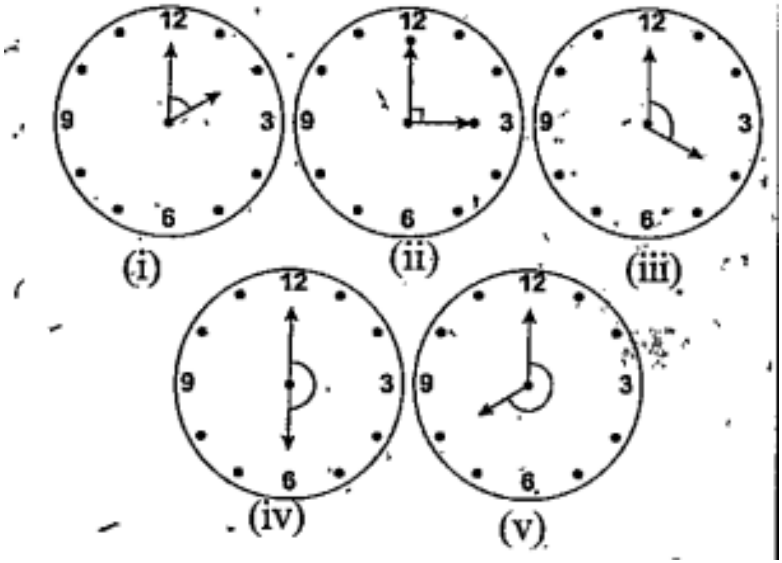
**3.** Write the type of angles you observed in the given clock

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**4.** One right angle is equal to .....degrees

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**5.** Write any two acutwe angles and any two obtuse angles.

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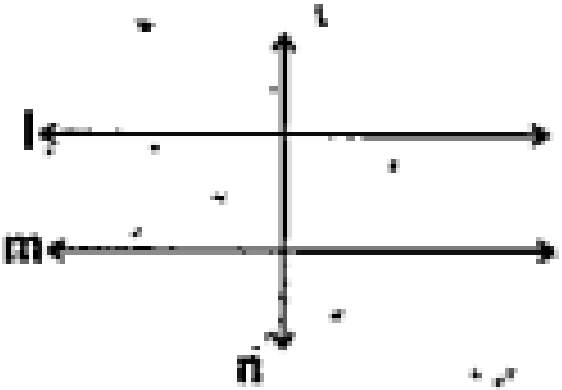
**6.** Observe the parallel and perpendicular lines in the given figure write them using symbols

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**7.** Take 15 pieces of a white paper. Write each pair of angles given below on each piece of paper. Fold each paper separately and put them in a box. Ask each student to come and take one folded piece of paper. Ask students to find the sum of angles written on them and write the sum on the paper. *(P.S.)*

i) $53^\circ, 27^\circ$ ii) $48^\circ, 132^\circ$
iii) $14^\circ, 76^\circ$ iv) $90^\circ, 270^\circ$
v) $200^\circ, 100^\circ$ vi) $26^\circ, 64^\circ$
vii) $63^\circ, 117^\circ$ viii) $111^\circ, 60^\circ$
ix) $144^\circ, 36^\circ$ x) $180^\circ, 180^\circ$
xi) $100^\circ, 260^\circ$ xii) $40^\circ, 35^\circ$
xiii) $45^\circ, 45^\circ$ xiv) $89^\circ, 271^\circ$
xv) $90^\circ, 90^\circ$

How many of you got asum of $90^\circ$ they are some pair of complementary angles<

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**8.** Take 15 pieces of a white paper. Write each pair of angles given below on each piece of paper. Fold each paper separately and put them in a box. Ask each student to come and take one folded piece of paper. Ask students to find the sum of angles written on them and write the sum on the paper. *(P.S.)*

i) $53^\circ, 27^\circ$ ii) $48^\circ, 132^\circ$
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vii) $63^\circ, 117^\circ$ viii) $111^\circ, 60^\circ$
ix) $144^\circ, 36^\circ$ x) $180^\circ, 180^\circ$
xi) $100^\circ, 260^\circ$ xii) $40^\circ, 35^\circ$
xiii) $45^\circ, 45^\circ$ xiv) $89^\circ, 271^\circ$
xv) $90^\circ, 90^\circ$

How many of you got asum of $180^\circ$ they are some pair of complementary angles

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9. Take 15 pieces of a white paper. Write each pair of angles given below on each piece of paper. Fold each paper separately and put them in a box. Ask each student to come and take one folded piece of paper. Ask students to find the sum of angles written on them and write the sum on the paper. (P.S.)

i) $53°, 27°$ ii) $48°, 132°$
iii) $14°, 76°$ iv) $90°, 270°$
v) $200°, 100°$ vi) $26°, 64°$
vii) $63°, 117°$ viii) $111°, 60°$
ix) $144°, 36°$ x) $180°, 180°$
xi) $100°, 260°$ xii) $40°, 35°$
xiii) $45°, 45°$ xiv) $89°, 271°$
xv) $90°, 90°$

How many of you got asum of $360^\circ$ they are some pair of conjugate angles

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**10.** Find the complementary angles of $27^\circ$

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**11.** Find the complementary angles of $43^\circ$

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**12.** Findthe complementary angles of $k^\circ$

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**13.** Findthe complementary angles of $2^{\circ}$

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**14.** Find the supplementary angles of $13^{\circ}$

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**15.** Find the supplementary angles of $97^{\circ}$

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**16.** Find the supplementary angles of $a^\circ$

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**17.** Findthe supplementary angles of $46^\circ$

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**18.** Find the conjugate angles of $74^\circ$

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**19.** Find the conjugate angles of $180^\circ$

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**20.** Find the conjugate angles of $m^\circ$

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**21.** Find the conjugate angles of $300^\circ$

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**22.** Umesh said "two acute angles can not form a pair of supplementary angles"do you Agree? give reason.

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**23.** Lokesh said,"Each angle in any pair of complementary angles is always acute do you agree justify your answer.

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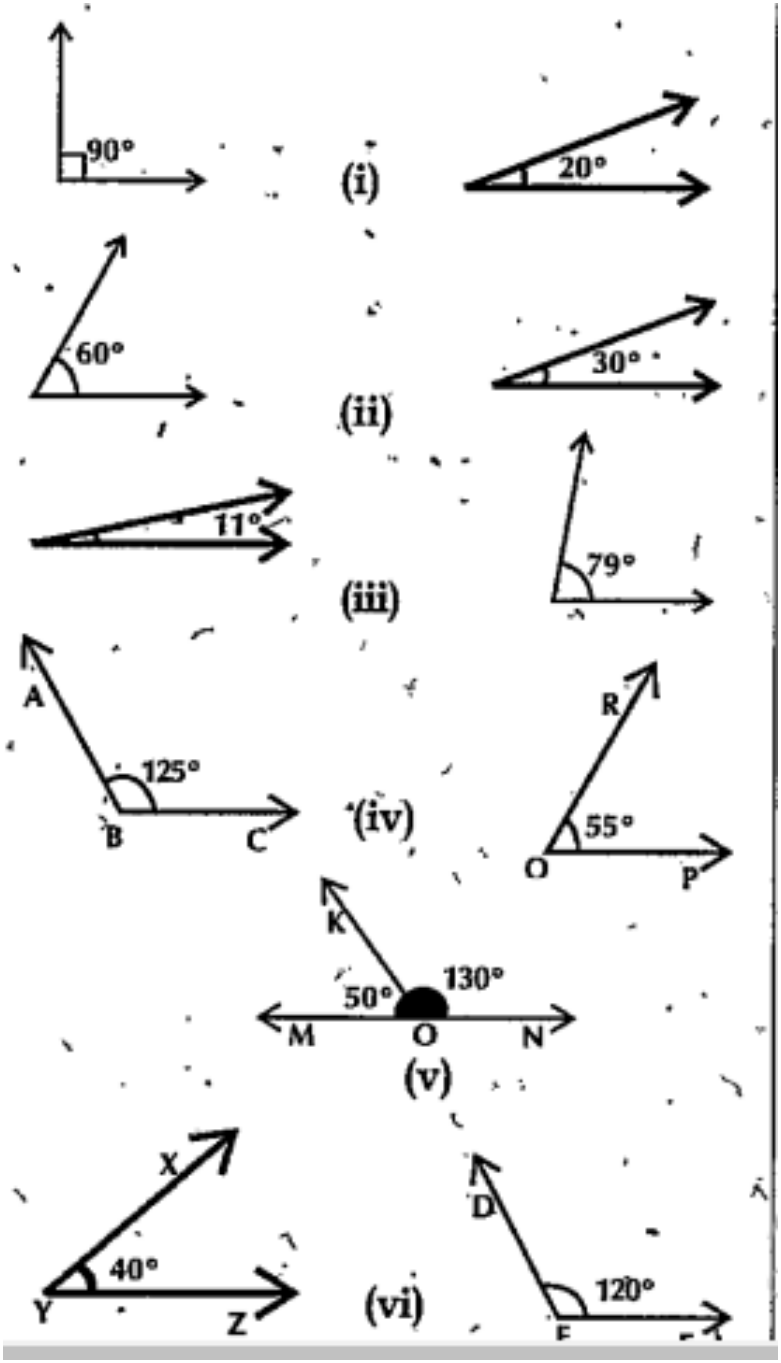
**24.** Find which of the following pair of angles are complementary and which are

supplementary?



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**25.** If the ratio of two complementary angles is 2:3 then find the two angles.

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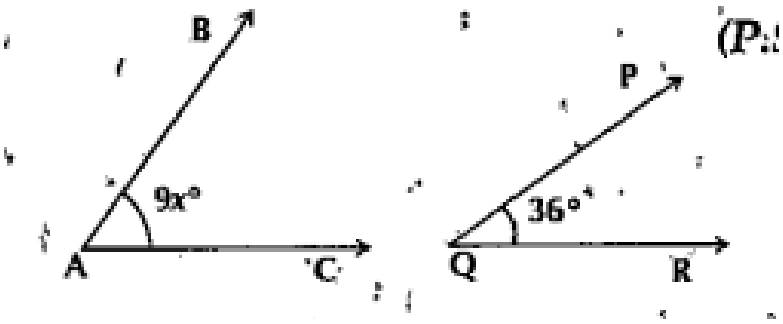
**26.** In the figure $\angle A$ and $\angle Q$ are complementary angles find the value of x

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**27.** If $\angle A$ and $\angle B$ are conjugate angles and $\angle A = \angle B$find the two angles.

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**28.** Draw a pair of complementary angles and a pair of supplementary angles

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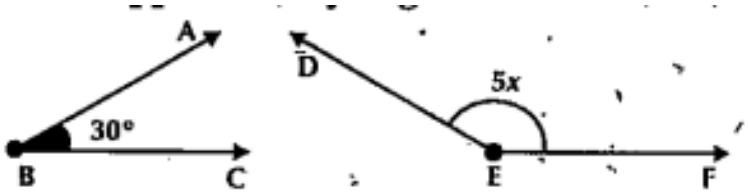
**29.** In the given figure $\angle B$ and angle E` are supplementary angles find x

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**30.** Arshita said "in the pair of supplementary angles one angle must be obtuse angle do you agree give reason

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**31.** Find the angle which is $40^\circ$ more than its supplementary angle?

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**32.** Srinu said "two obtuse angles can not be supplementary do you agree justify your answer

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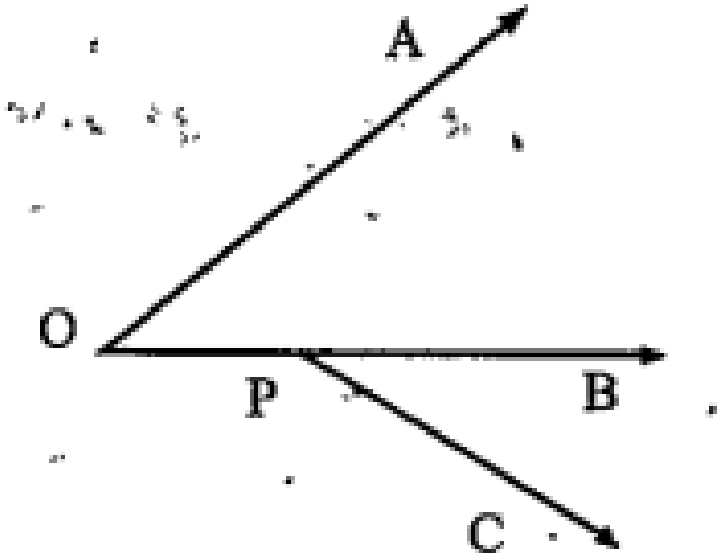
**33.** In figure $\angle AOB$ and $\angle BPC$ are not adjacent why?give reason

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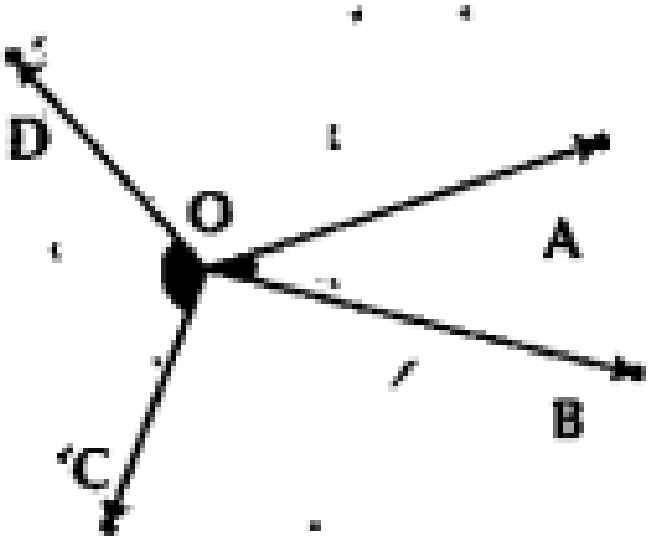
**34.** In the figure $\angle AOB$ and $\angle COD$ have common vertex O but $\angle AOB$, $\angle COD$ are not

adjacent angles give reason

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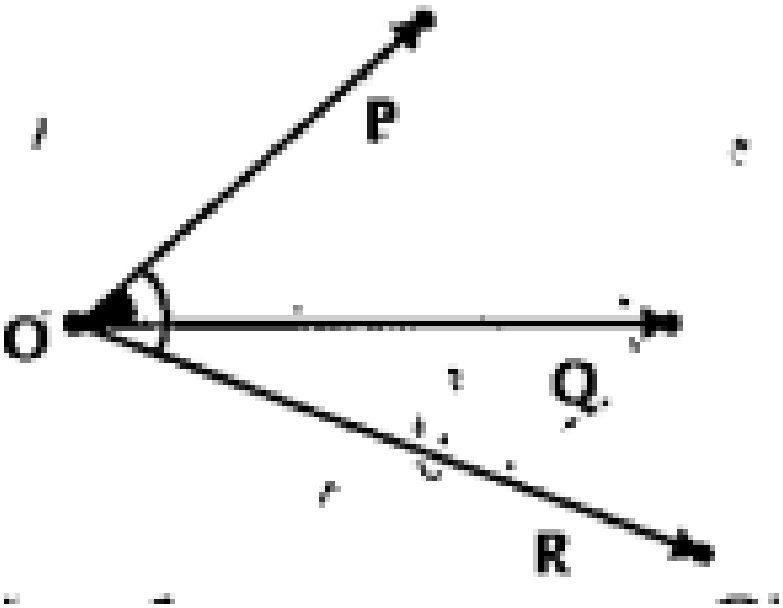
**35.** In the figure $\angle POQ$ and $\angle PQR$ have common vertex O and common arm OP but $\angle POQ, \angle PQR$ are not adjacent angles give

reason

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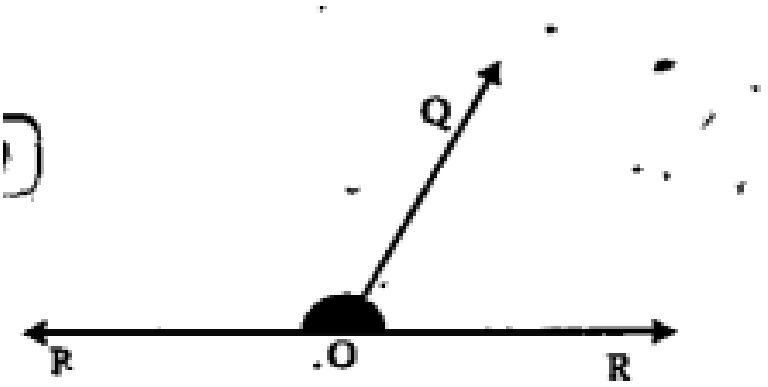
**36.** In the adjacent figure $\overrightarrow{PR}$ is a staright line and O is a point on the line $\overrightarrow{OQ}$ is a ray if

$\angle QOR = 50^\circ$ then $\angle POQ = ?$

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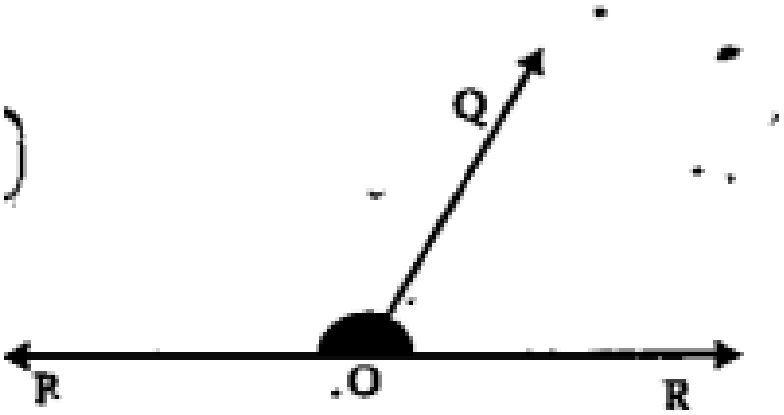
**37.** In the adjacent figure $\overleftrightarrow{PR}$ is a staright line and O is a point on the line $\overrightarrow{OQ}$ is a ray if

$\angle QOP = 102^\circ$ then $\angle QOR$=?

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**38.** A linear pair of angles must be adjacent but adjacent angles and not be linear pair do you agree draw a figure to support your answer.

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**39.** Mahesh said that the sum of the two angles $30^\circ$ and $150^\circ$ is $180^\circ$ hence they are linear pair do you agree justify your answer.

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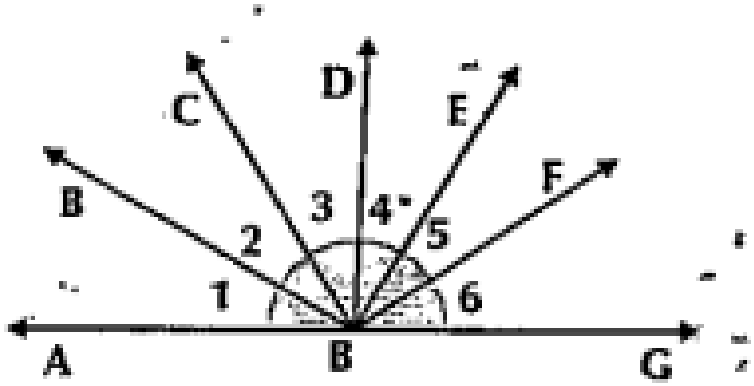
**40.** In the given figure $\overrightarrow{AG}$ is a straight line find the value of

$\angle 1 + \angle 2 + \angle 3 + \angle 4 + \angle 5 + \angle 6$?

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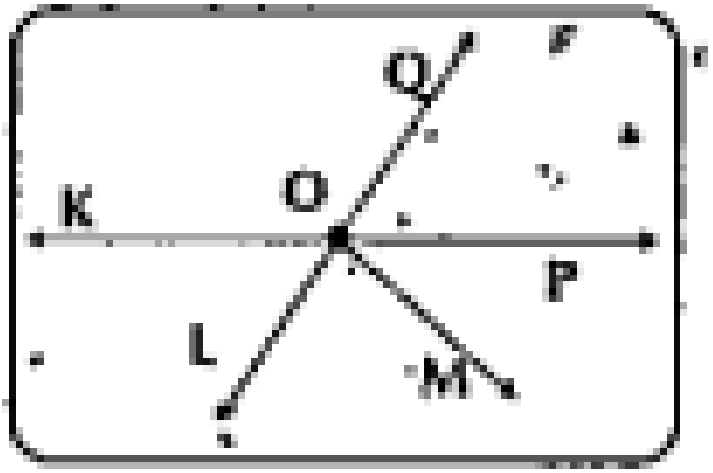
**41.** Observ ethe given figure and write any 2 linear pairs of angles

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**42.** Draw a pair of adjacent angles which are supplementary to each other

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**43.** Give any two example of adjacent angles in your surroundings.

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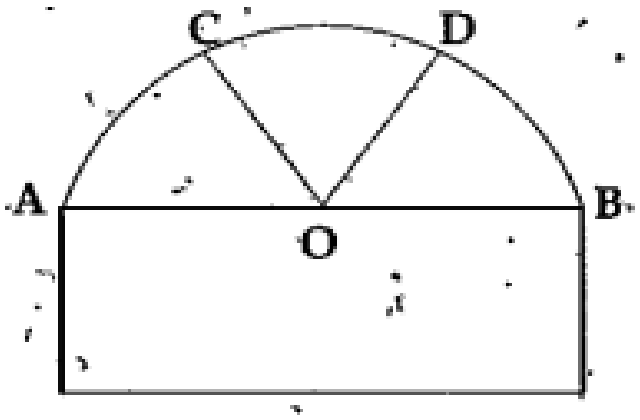
**44.** Observe the figure and write the adjacent angles

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**45.** Is it possible for the following pair of angles to form a linear pair ?if yes draw them if not give reason (R&P) $98^\circ$ , $102^\circ$

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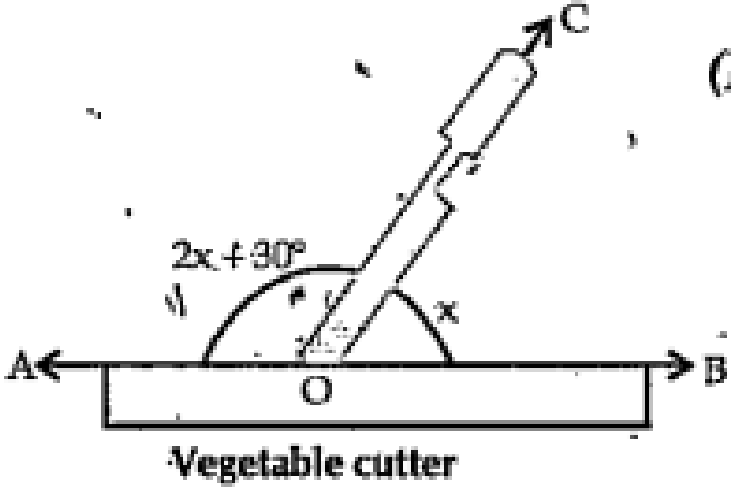
**46.** In the given figure $\overrightarrow{AB}$ is a straight line O is a point on $\overrightarrow{AB}$ find the value of x

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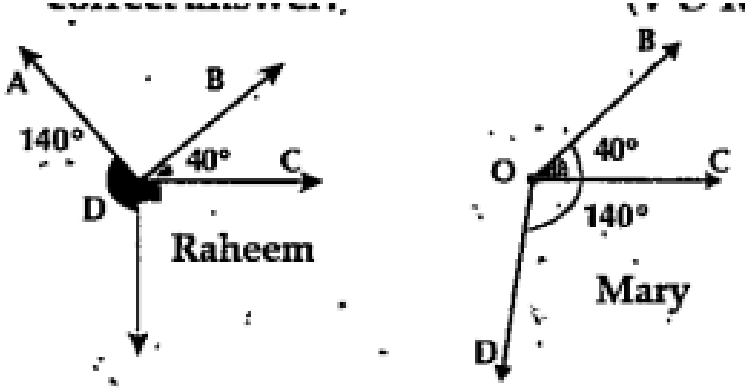
**47.** Teacher asked students to check whether $40^\circ$ and $140^\circ$ form a linear pair or not by drawing angles the students have drawn as

follows who will get correct answer?

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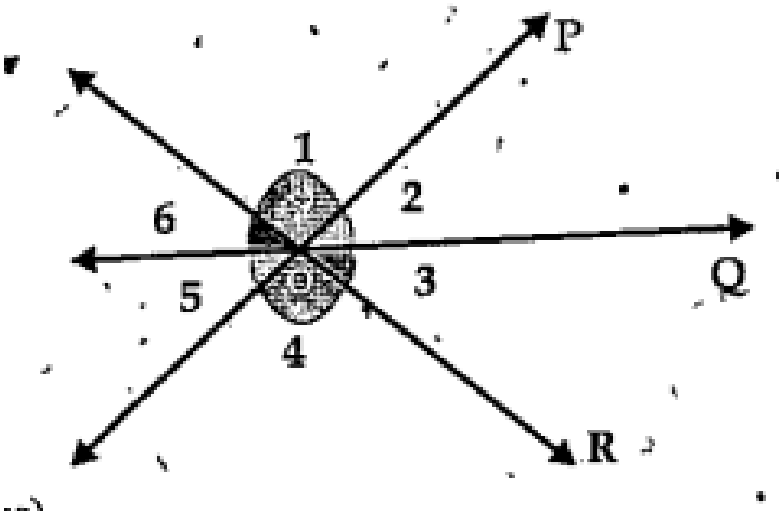
**48.** In the figure three lines p,q and r intersect at a point O observe the angles in the figure write answers to the following

. What is the vertically opposite angle to $\angle 1$

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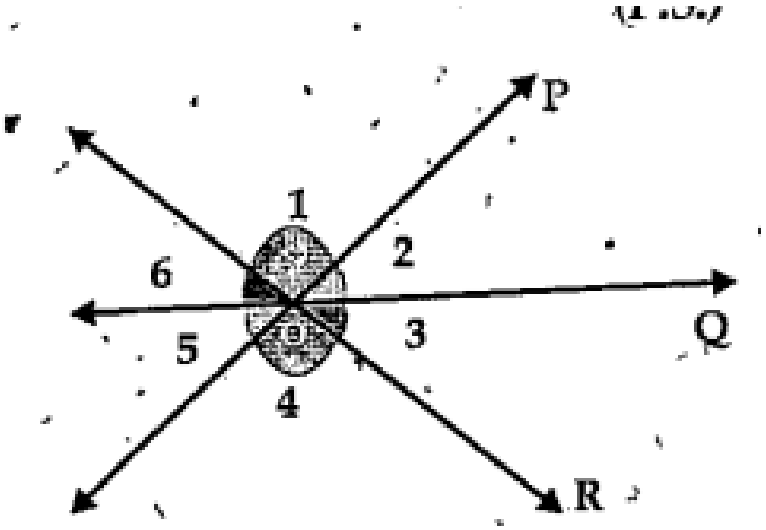
**49.** In the figure three lines p,q and r intersect at a point O observe the angles in the figure write answers to the following.

What is the vertically opposite angle to $\angle 6$

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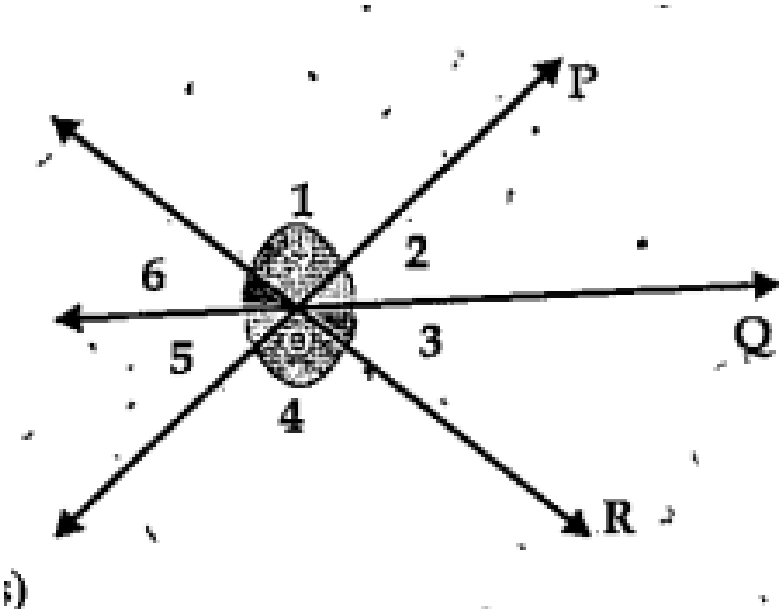
**50.** In the figure three lines p,q and r intersect at a point O observe the angles in the figure write answers to the following.

If $\angle 2 = 50^\circ$ then what is $\angle 5$

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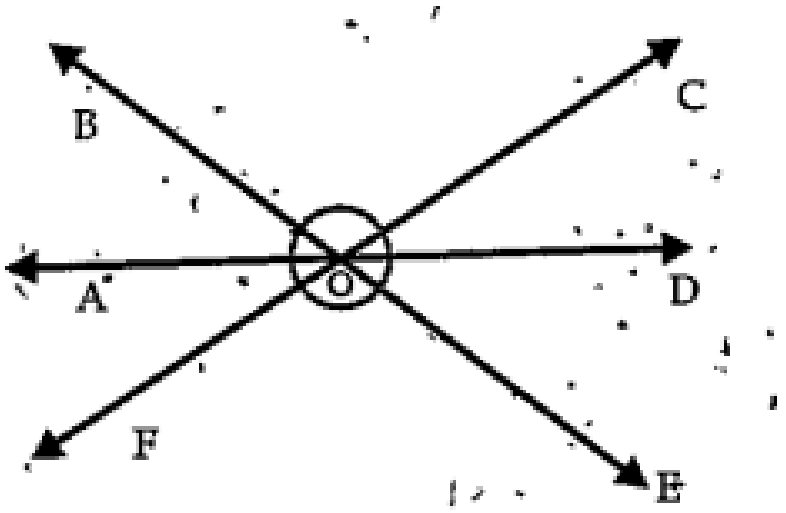
**51.** Name three pairs of vertically opposite angles in the figure if $\angle AOB = 45^\circ$ then find

$\angle DOE$

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**52.** Give some examples of vertically opposite angles in your surroundings.

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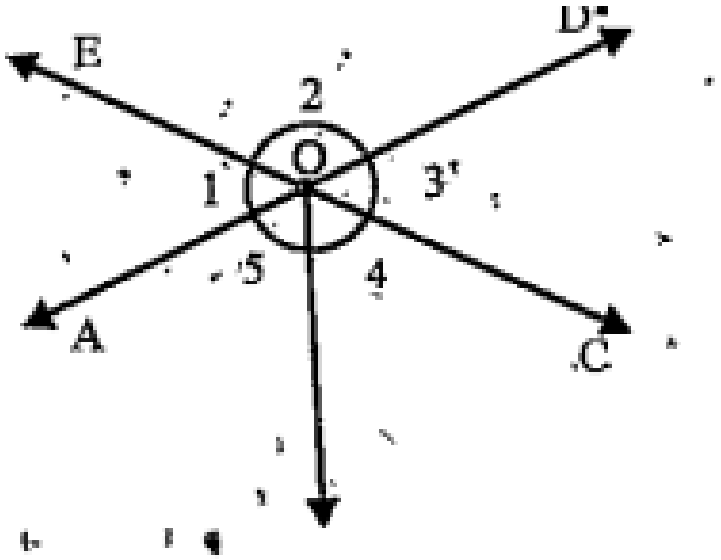
**53.** In the given figure two lines $\overrightarrow{AD}$ and $\overrightarrow{EC}$ intersect at O name two pairs of vertically opposite angles in the given figure

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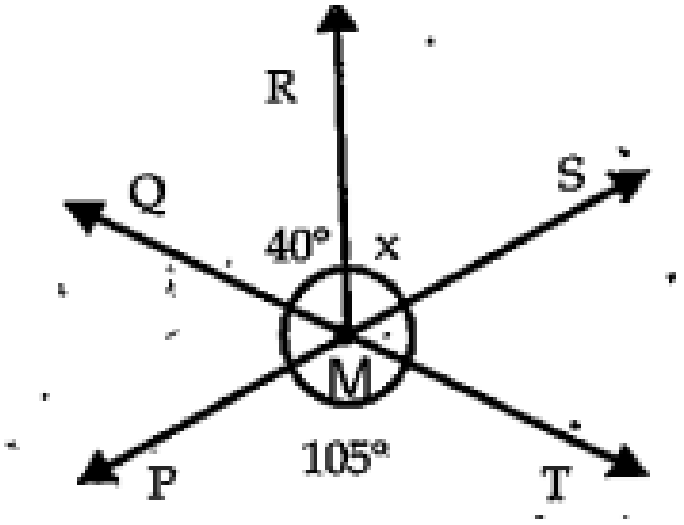
**54.** Two lines $\overrightarrow{PS}$ and $\overrightarrow{QT}$ intersect at M observe the figure and find x

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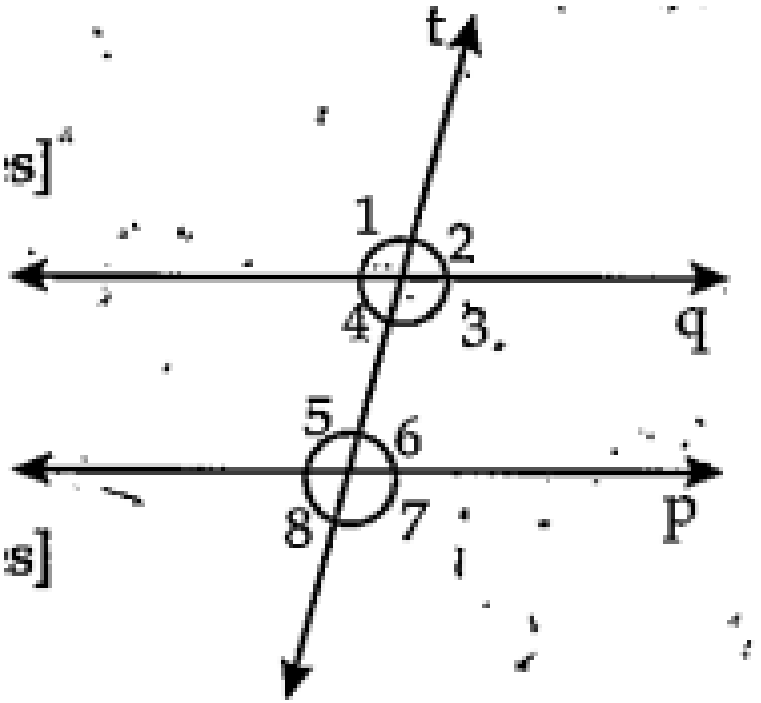
**55.** In the figure $p \| q$ and t is a transversal observe the angles formed

If $\angle 1 = 100^\circ$ then what is $\angle 5$

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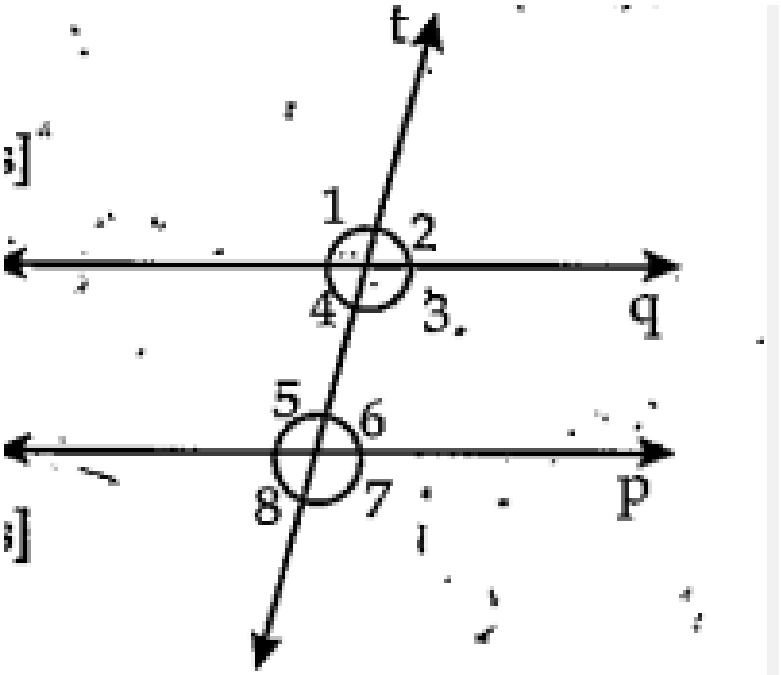
**56.** In the figure $p \| q$ and t is a transversal observe the angles formed

if $\angle 8 = 80^\circ$ then what is $\angle 4$

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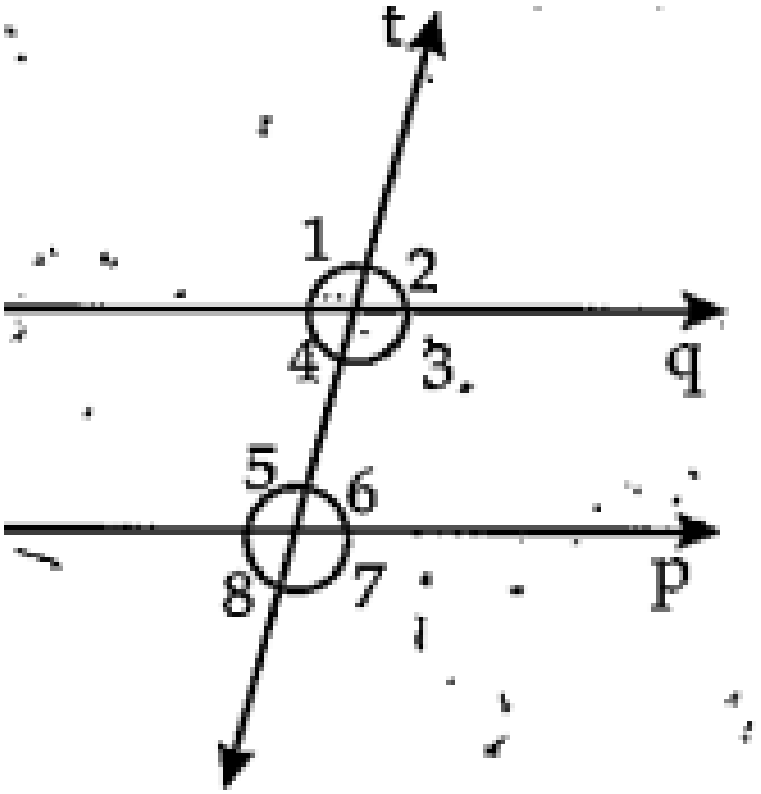
**57.** In the figure $p \| q$ and t is a transversal observe the angles formed

if $\angle 3 = 145^\circ$ then what is $\angle 7$

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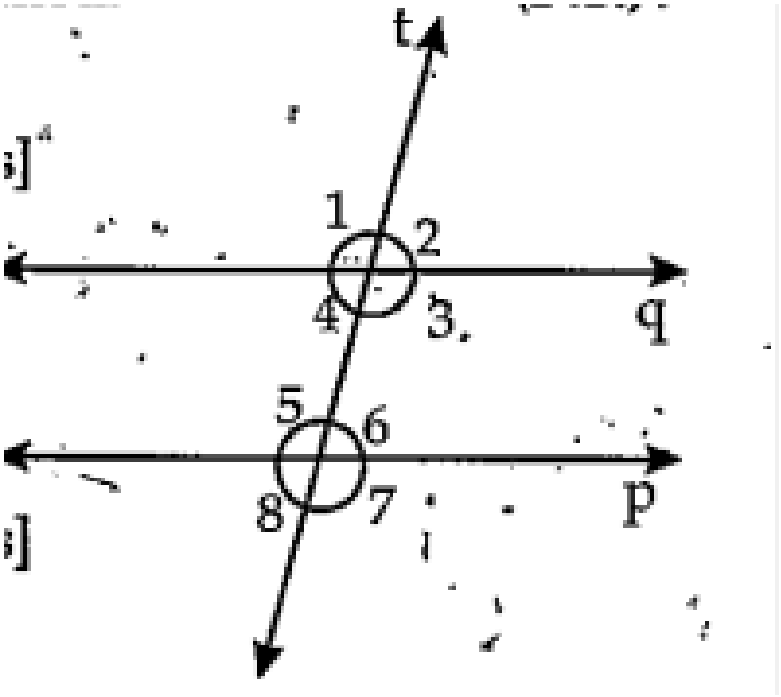
**58.** In the figure $p \| q$ and t is a transversal

observe the angles formed

if $\angle 6 = 30^\circ$ then what is $\angle 2$

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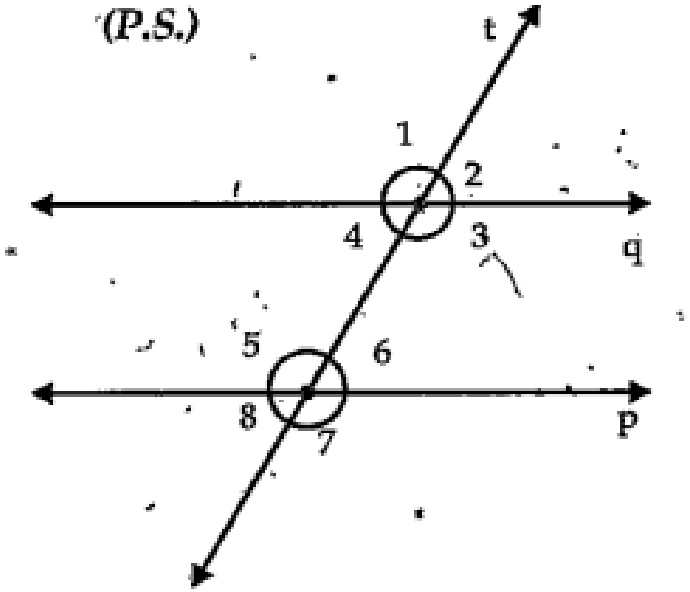
**59.** What is the relation between alternate exterior angles formed by a transversal on parallel lines?

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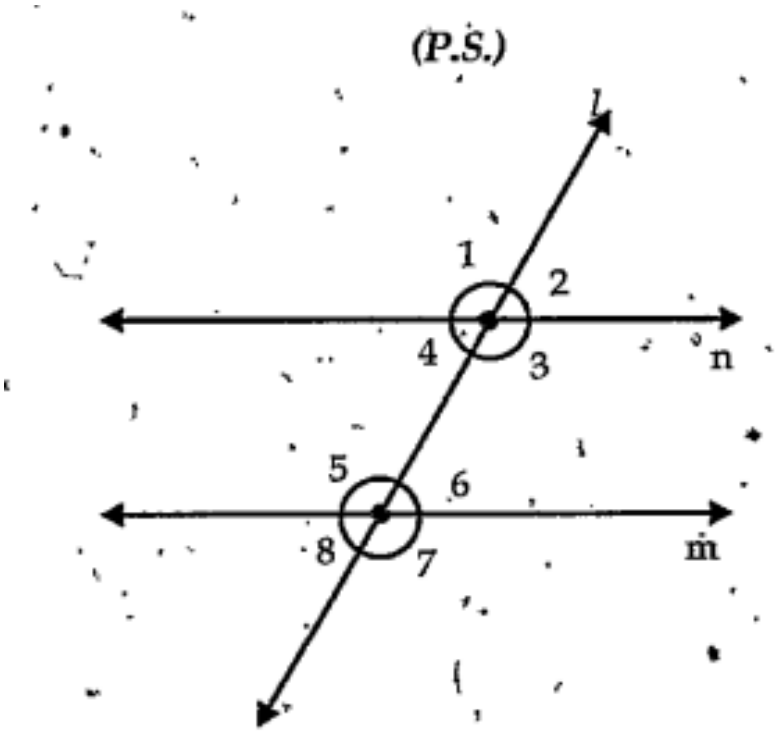
**60.** In the figure ,$m \parallel m$ and l is transversal

If $\angle 4 = 51^\circ$ then what is$\angle 5$

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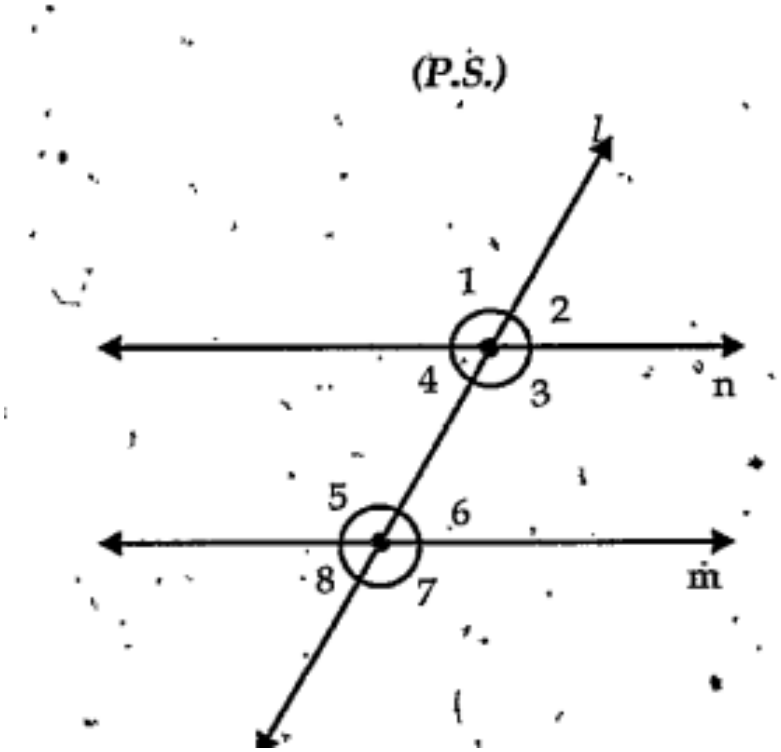
**61.** In the figure ,$m \parallel n$ and l is transversal

if $\angle 1 = 123^\circ$ then what is $\angle 7$

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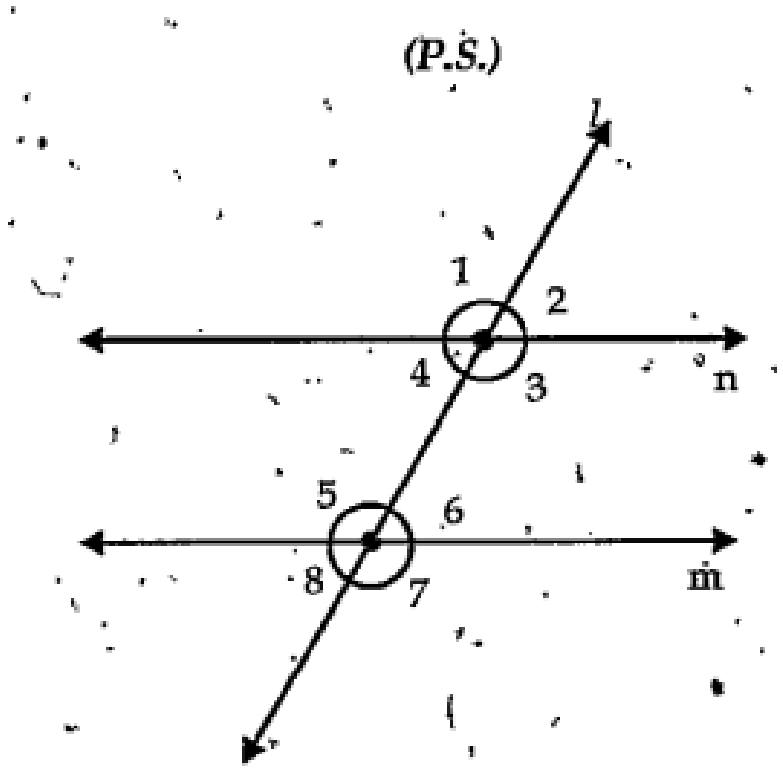
**62.** In the figure ,$m \parallel m$ and l is transversal

if $\angle 2 = 66^\circ$ then what is $\angle 7$

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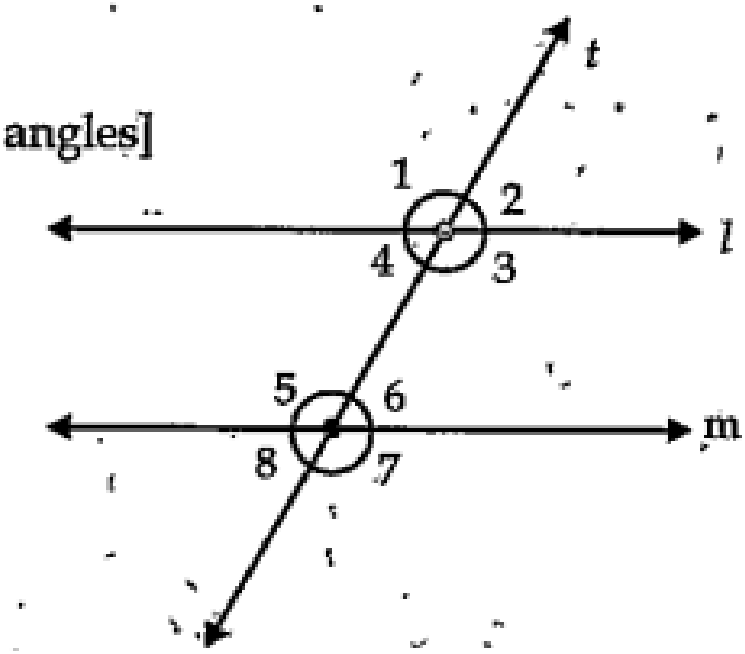
**63.** What is the relation between co exterior angles when a transversal cuts a pair of parallel lines?

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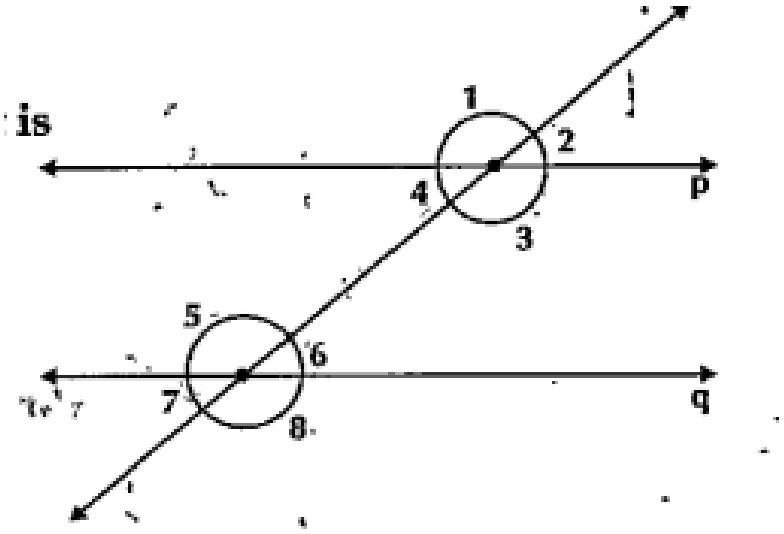
**64.** From the figure state which property that is used in each of the following if $\angle 3 = \angle 5 then p \mid\mid q$

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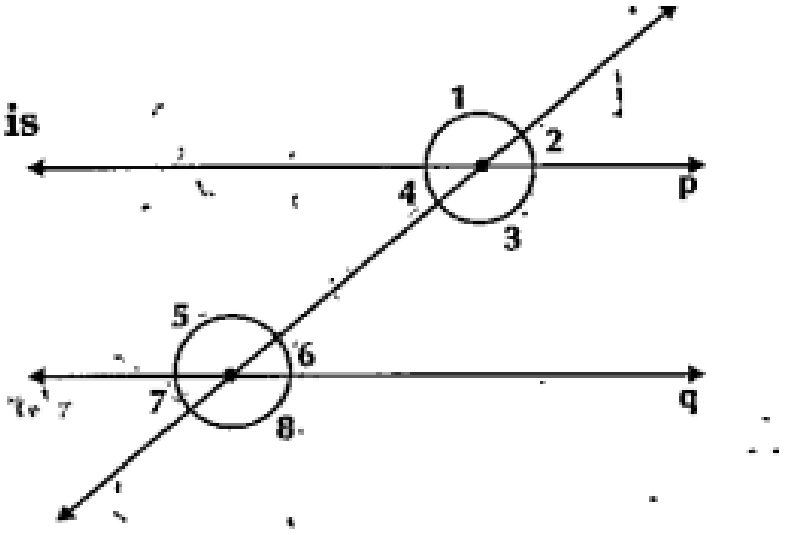
**65.** From the figure state which property that is used in each of the following if $\angle 3 + \angle 6 = 180^\circ$ then p||q`

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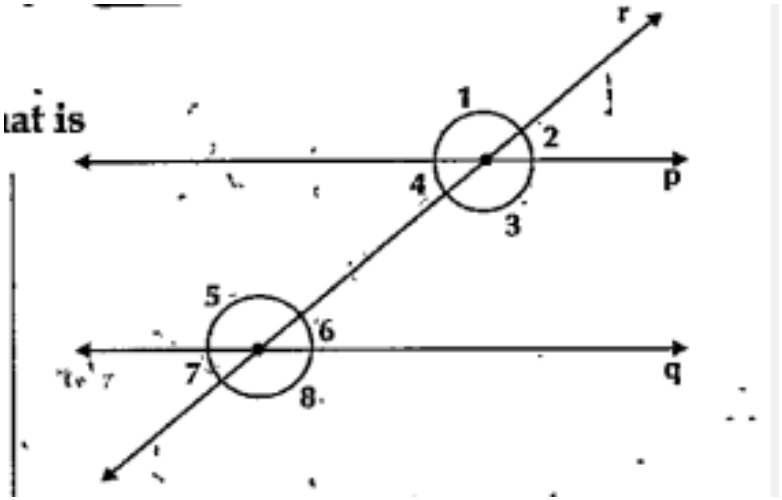
**66.** From the figure state which property that is used in each of the following if $\angle 3 = \angle 8 then p \mid\mid q$

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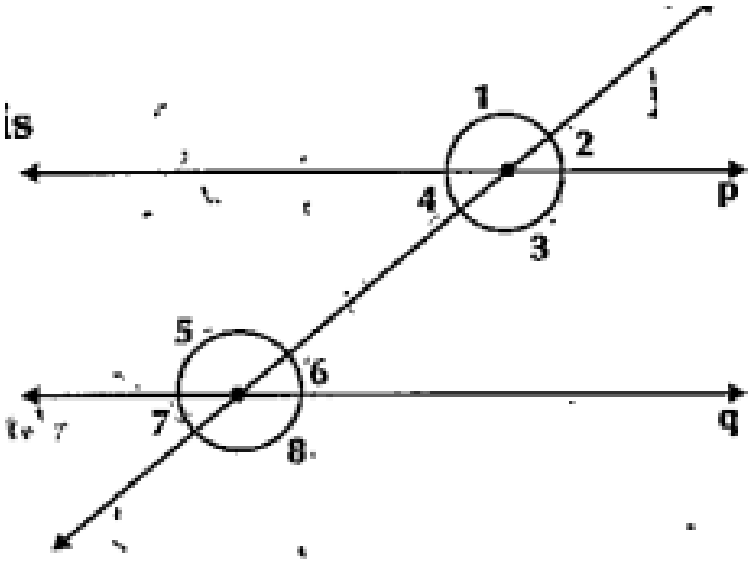
**67.** From the figure state which property that is used in each of the following if $p \| q then \angle 1 = \angle 8$

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**68.** When a traversal intersects two lines and a pair of alternate exterior angles are eqaul what can you say about the two lines?

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**69.** When a traversal intersects two lines and a pair of alternate co exterior angles are eqaul what can you say about the two lines?

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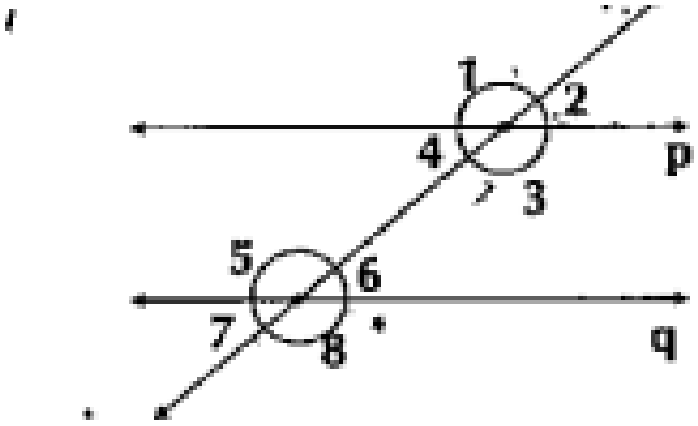
**70.** In the given figure two lines p||q and r is a traversal if $\angle 3 = 135^\circ$ then find the remaining angles

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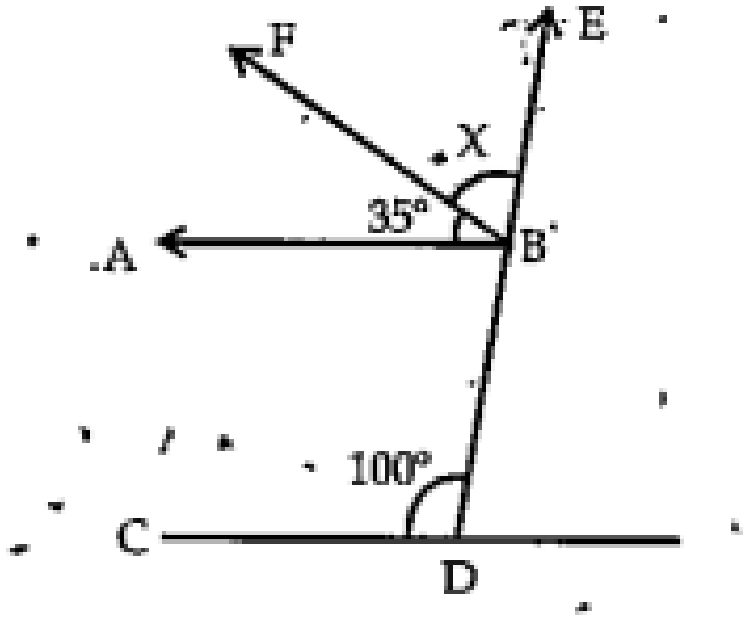
**71.** In the given figure $\overrightarrow{AB} \mid\mid \overrightarrow{CD}$ and $\overrightarrow{DE}$ is a transversal find x

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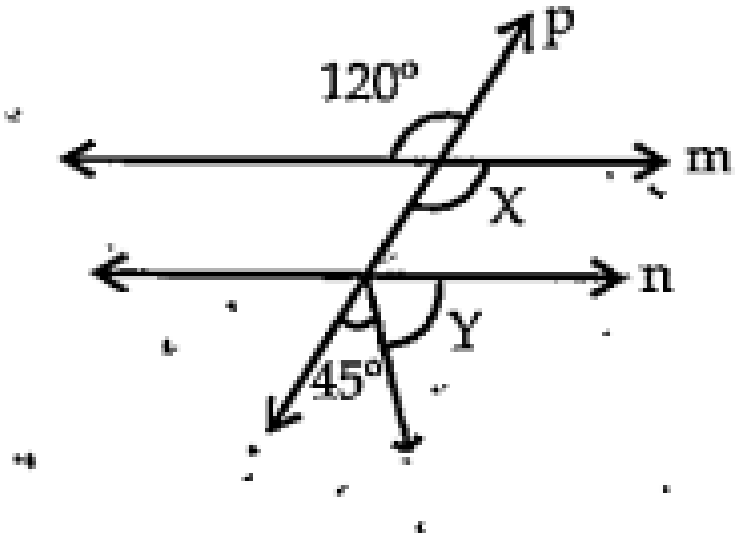
**72.** In the given figure $m \| n$ and p is a transversal find x and y

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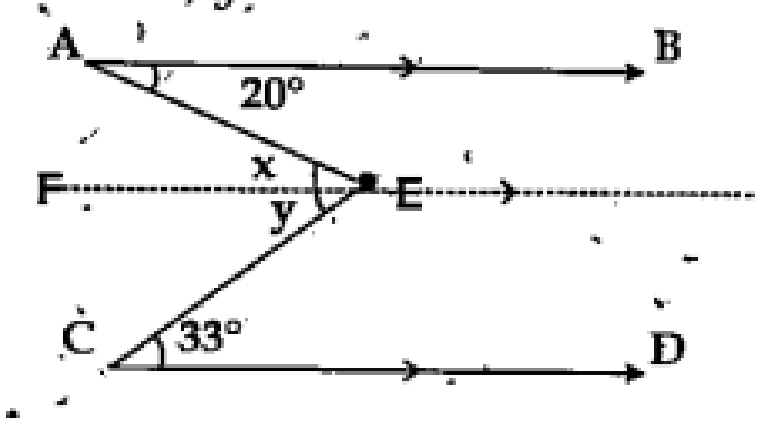
**73.** In the given figure $\overrightarrow{AB} \| \overrightarrow{CD} \| \overrightarrow{FE}$ find x,y and $\angle AEC$

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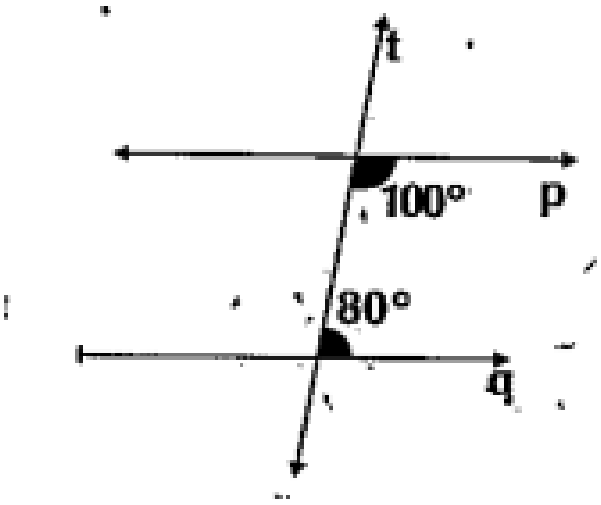
**74.** In the given figure a transversal t intersects two lines p and q check whether

p||q or not

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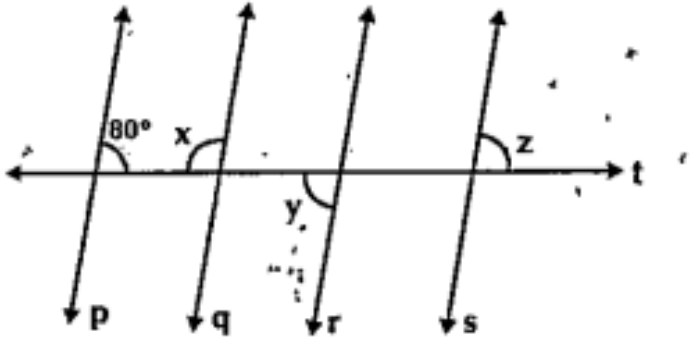
**75.** In the given figure p,q,r and s are parallel lines and t is a transversal find x,y and z

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**76.** Find the complementary supplementry and conjugate angle of $36^\circ$

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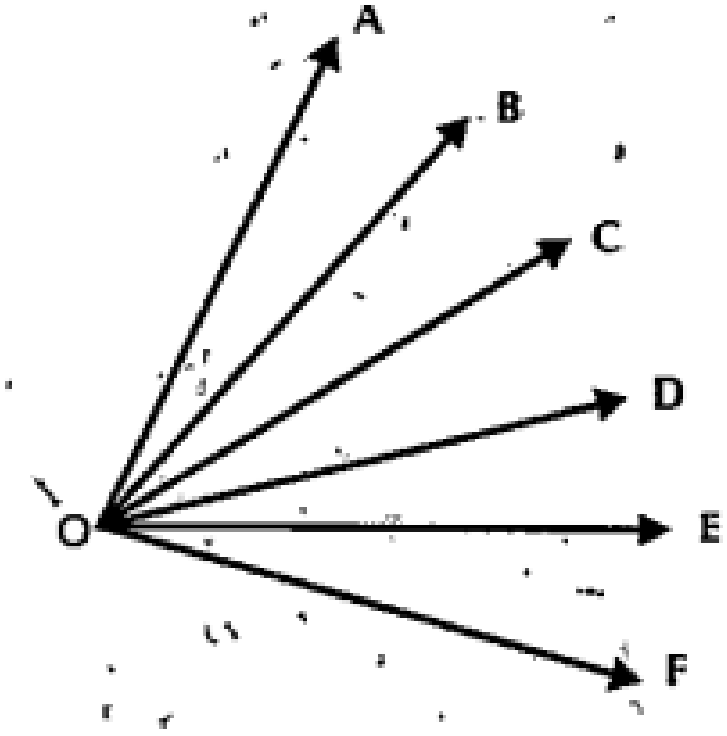
**77.** Observ ethe figure and write any 4 pair of adjacent angles

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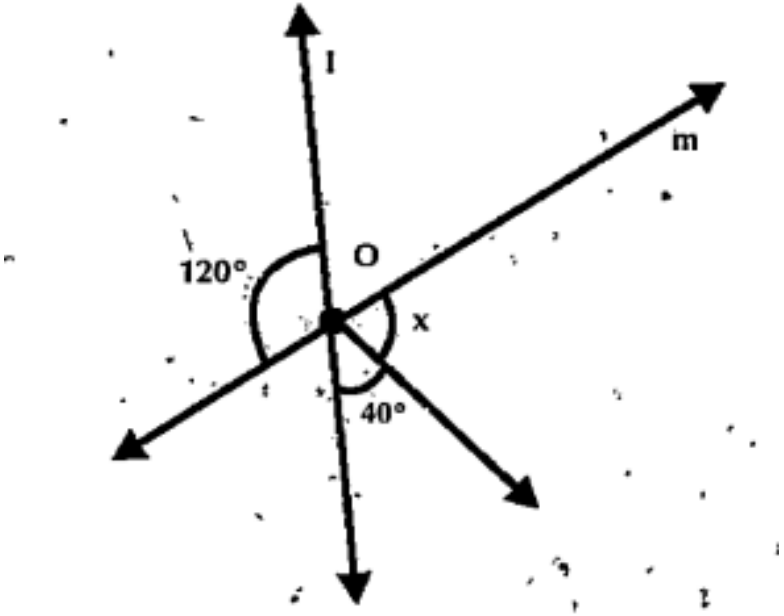
**78.** In the given figure the lines l and m intersects at O find x

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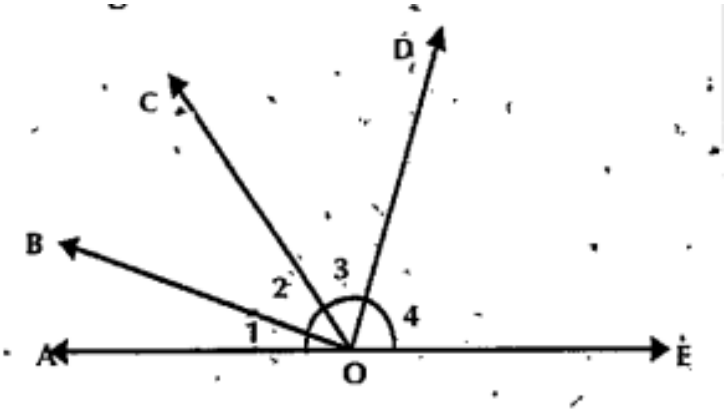
**79.** In the given figure $\overrightarrow{A}E$ is a staright line if the ratio of angles $\angle 1, \angle 2, \angle 3, \angle 4$ in the given figure is 1:2:3:4 then find the angles

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**80.** write any two examples for linear pair of angles in your surroundings.

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**81.** Mani said two obtuse angles can form a pair of conjugate angles do you agree justify your answer

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**82.** Draw a pair of adjacent angles which are supplementary to each other

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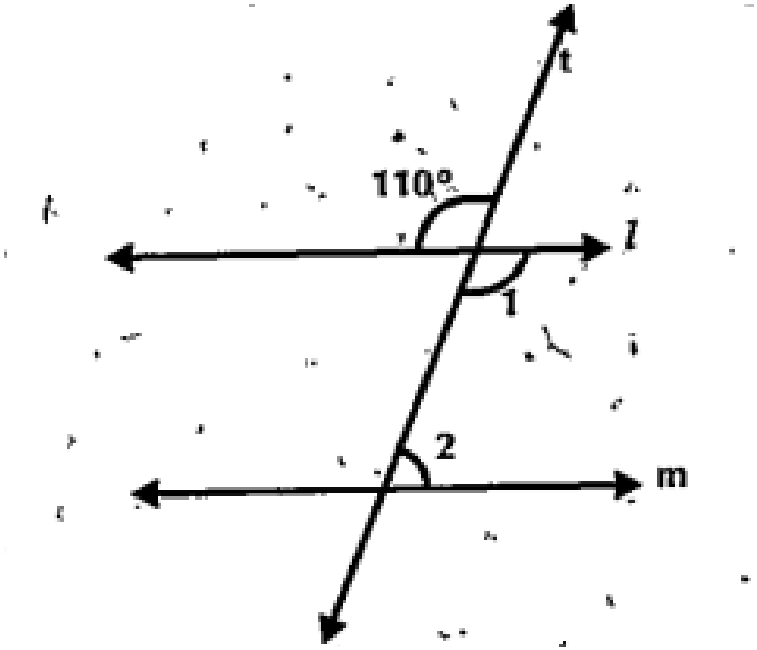
**83.** In the figure if l||m ,t is a transversal find $\angle 1$ and $\angle 2$ the line P is known as....

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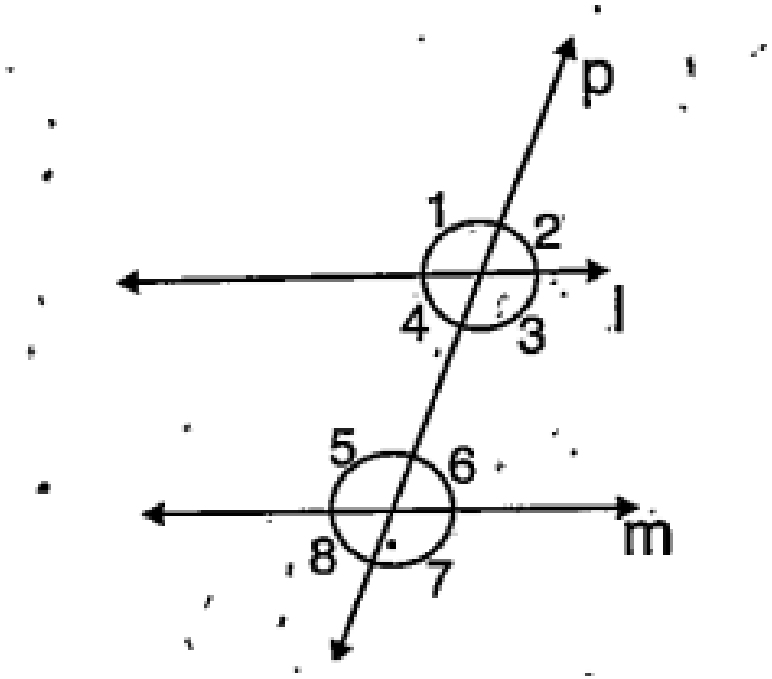
**84.** A line p intersects two lines l and m at two distinct points observe the figure and fill in the blanks the line P is known as.....

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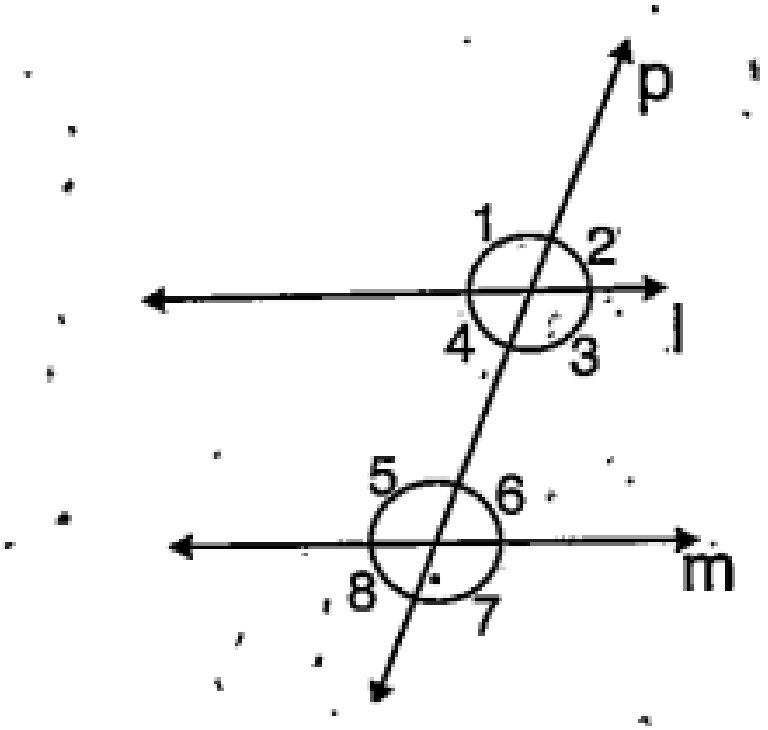
**85.** A line p intersects two lines l and m at two distinct points observe the figure and fill in the blanks $\angle 1 \text{ and } \angle 5$ is a pair of.....angles

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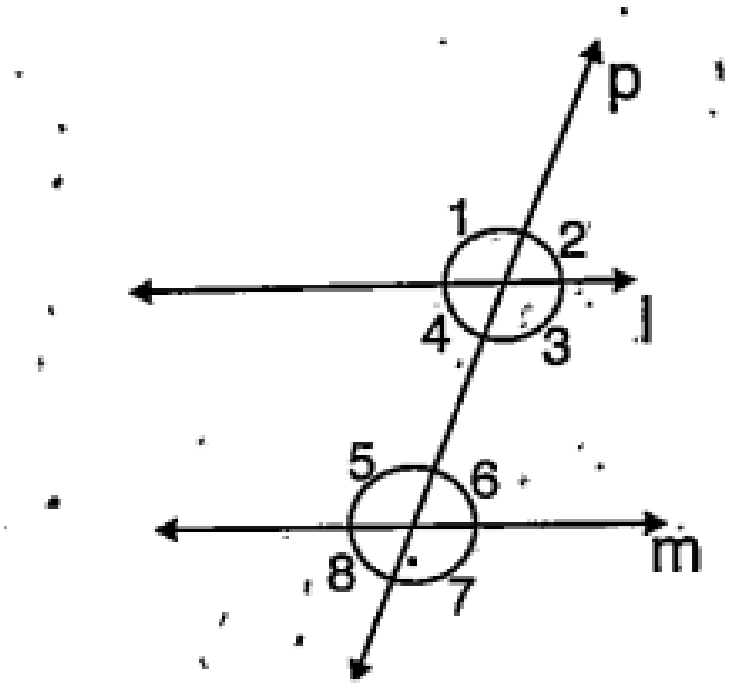
**86.** A line p intersects two lines l and m at two distinct points observe the figure and fill in the blanks $\angle 4 \text{ and } \angle 6$ is a pair of .....angles

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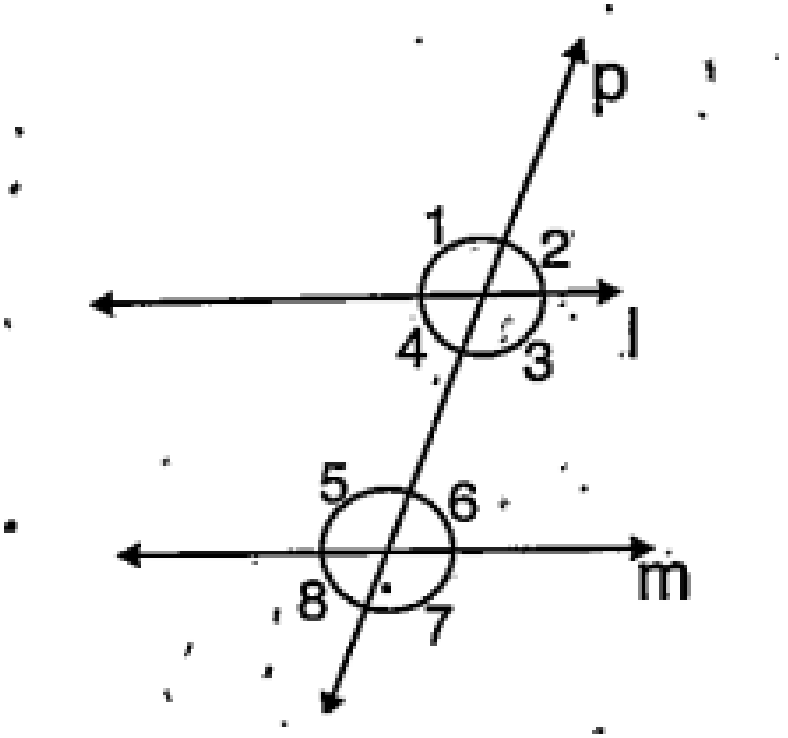
**87.** A line p intersects two lines l and m at two distinct points observe the figure and fill in the blanks $\angle 3$ and $\angle 6$ is a pair of angles.....

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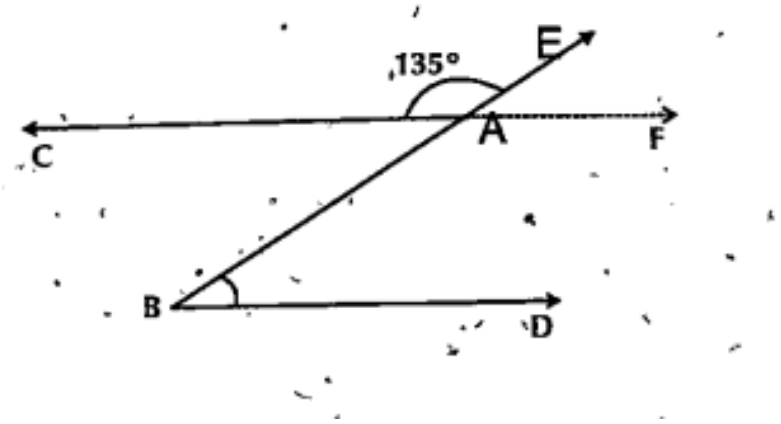
**88.** In the given figure $\overrightarrow{C}\,F \mid\mid \overrightarrow{BD}, \overrightarrow{BE}$ is a transversal $\angle CAE = 135^\circ$ then find $\angle ABD$

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**89.** A ray has.....end points

A. one

B. two

C. three

D. four

**Answer: A**

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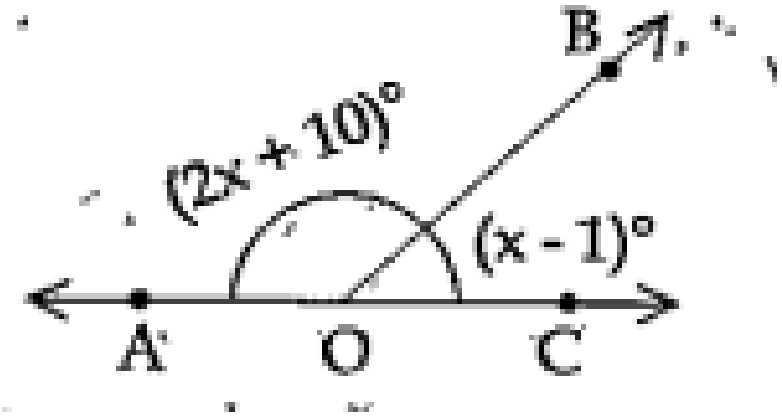
**90.** Find the value of $\angle BOC$ in the given figure




A. $57^\circ$

B. $58^\circ$

C. $56^\circ$

D. $55^\circ$

**Answer: C**

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**91.** Which of the following are the units of an angle?

A. metres

B. seconds

C. grams

D. degrees

**Answer: D**

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**92.** How many rays can we draw from a given point

A. 1

B. 2

C. 10

D. infinitely many

**Answer: D**

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**93.** Find the angle which is complement of itself

A. $90^\circ$

B. $30^\circ$

C. $50^\circ$

D. $45^\circ$

**Answer: D**

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**94.** Supplementary angle of $130^\circ$

A. $40^\circ$

B. $60^\circ$

C. $50^\circ$

D. $90^\circ$

**Answer: C**

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**95.** One of the acute angle in right angle triangle is $30^\circ$ then the other angle is

A. $30^\circ$

B. $90^\circ$

C. $70^\circ$

D. $60^\circ$

**Answer: D**

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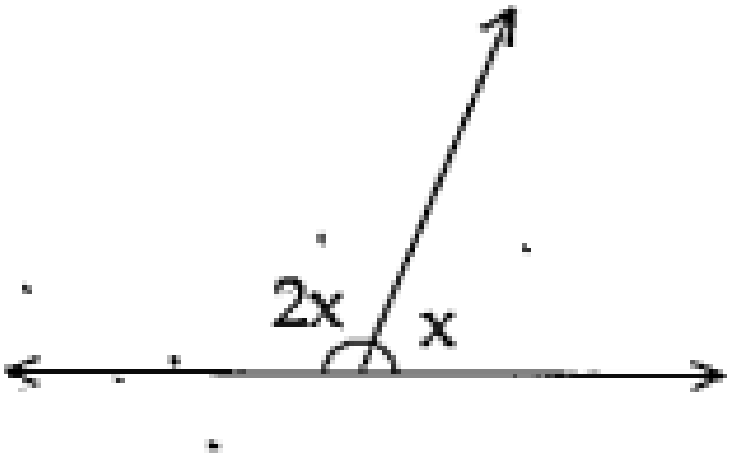
**96.** from the adjacent figure value of x=...




A. $60^\circ$

B. $120^\circ$

C. $90^\circ$

D. $180^\circ$

**Answer: A**

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**97.** In the following figure straight line is

A. A)

B. B)

C. C)

D. D)

**Answer: A**

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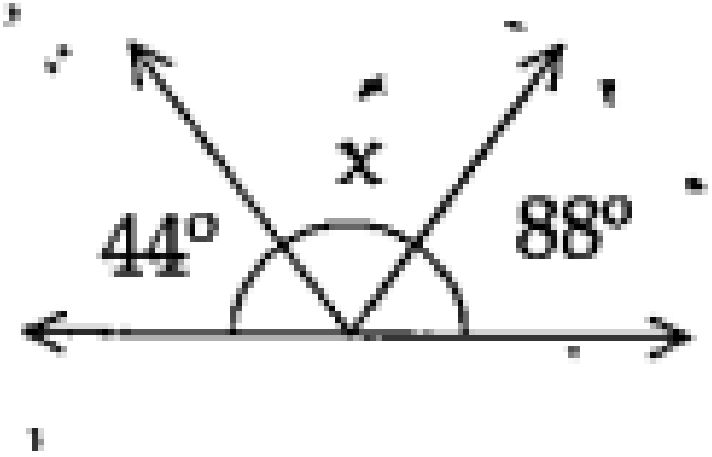
**98.** What is x here




A. $28^\circ$

B. $38^\circ$

C. $48^\circ$

D. $58^\circ$

**Answer: C**

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**99.** The angle which can not be formed by scissor

A. acute

B. right

C. straight

D. obtuse

**Answer: C**

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**100.** Angles between legs of a folding chair is an example of....

A. vertically opposite angles

B. adjacent angles

C. corresponding angles

D. alternate interior angles

**Answer: A**

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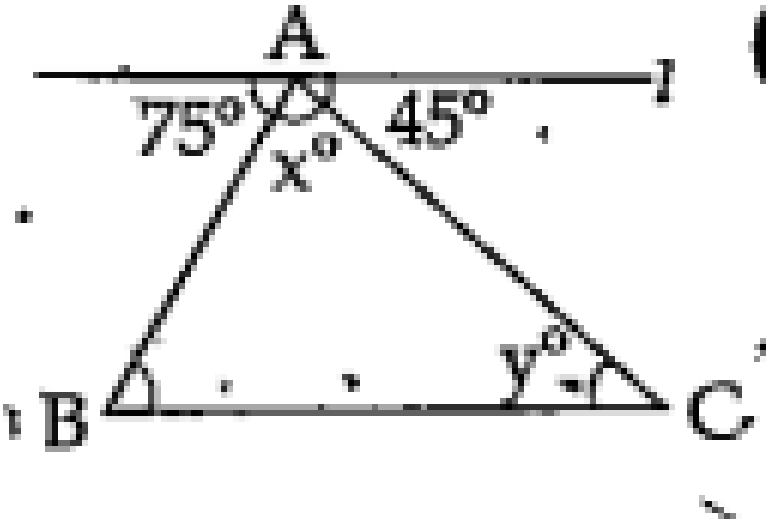
**101.** In the adjacent figure l||BC find x,y




A. $60^\circ, 45^\circ$

B. $45^\circ, 60^\circ$

C. $75^\circ 45^\circ$

D. $60^\circ 75^\circ$

**Answer: A**

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**102.** If two lines intersect each other then the number of common points they have

A. 1

B. 2

C. 4

D. infinity

**Answer: A**

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**103.** The supplementry angle of $70^\circ$ is

A. $20^\circ$

B. $110^\circ$

C. $290^\circ$

D. $70^\circ$

**Answer: B**

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**104.** Find the complementry angle of $55^\circ$

A. $35^\circ$

B. $45^\circ$

C. $25^\circ$

D. $15^\circ$

**Answer: A**

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**105.** Supplementry angle of $130^\circ$ is...

A. $130^\circ$

B. $50^\circ$

C. $70^\circ$

D. $100^\circ$

**Answer: B**

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**106.** The supplementry angle of $100^\circ$ is

A. $10^\circ$

B. $40^\circ$

C. $100^\circ$

D. $80^\circ$

**Answer: D**

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**107.** The supplement of $20^\circ$ is

A. $160^\circ$

B. $70^\circ$

C. $110^\circ$

D. $90^\circ$

**Answer: C**

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**108.** The complementary angle of $57^\circ$ is

A. $53^\circ$

B. $43^\circ$

C. $33^\circ$

D. $23^\circ$

**Answer: C**

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**109.** The supplementary angle of $55^\circ$ is

A. $105^\circ$

B. $135^\circ$

C. $125^\circ$

D. $145^\circ$

**Answer: C**

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**110.** If an angle is double of its complement then the angle is

A. $15^\circ$

B. $30^\circ$

C. $45^\circ$

D. $60^\circ$

**Answer: D**

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**111.** An angle is $30^\circ$ larger than a straight angle then the angle is.....

A. $90^\circ$

B. $150^\circ$

C. $210^\circ$

D. $390^\circ$

**Answer: C**

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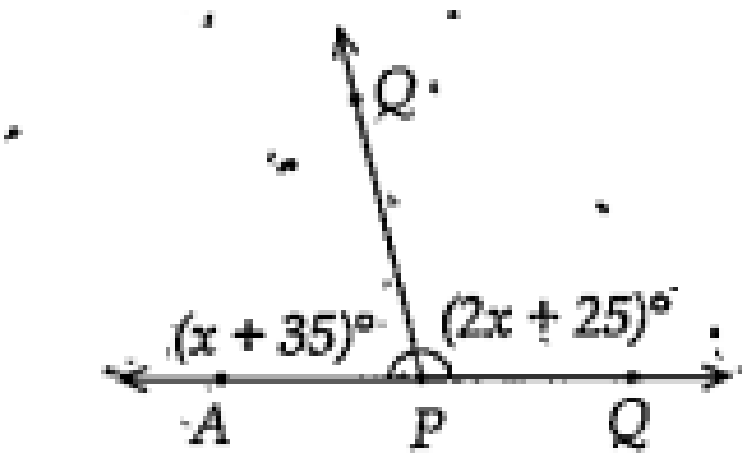
**112.** In the figure the value of x is




A. $40^\circ$

B. $20^\circ$

C. $60^\circ$

D. $150^\circ$

**Answer: A**

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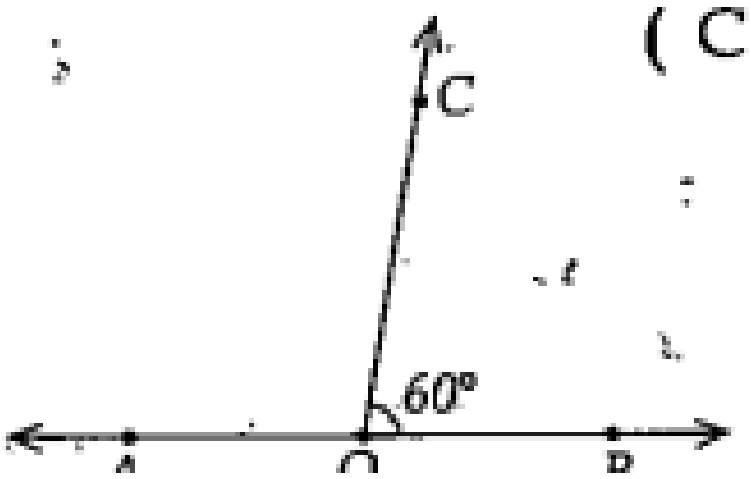
**113.** In the figure $\angle BOC = 60^\circ$, $\angle AOC =$




A. $90^\circ$

B. $30^\circ$

C. $120^\circ$

D. $60^\circ$

**Answer: C**

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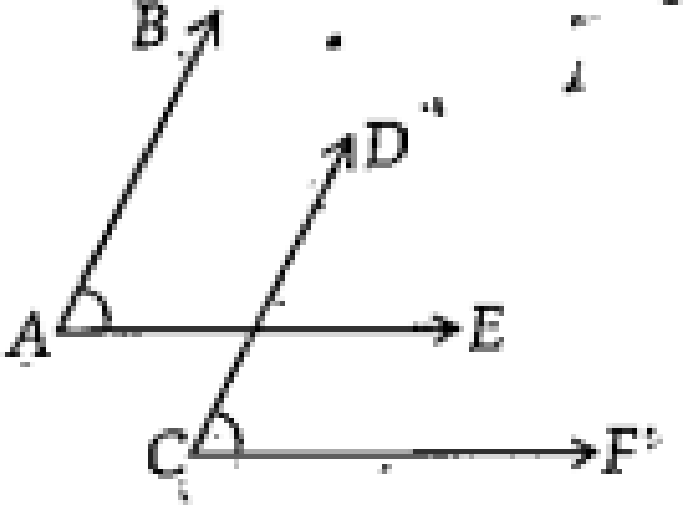
**114.** In the figure AB||CD and $AE \mid\mid CF$then angleA-angle C=.....




A. $0^\circ$

B. $90^\circ$

C. $45^\circ$

D. $60^\circ$

**Answer: A**

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**115.** What happens to the measurement of an angle after the extension of its arms?

A. doubles

B. triples

C. remains same

D. can not be same

**Answer: C**

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**116.** The distance between two parallel lines is.....

A. unequal

B. equal

C. decreases

D. increases

**Answer: B**

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**117.** The complementary angle of an angle greater than $45^\circ$ is....

A. equal to $45^\circ$

B. less than $45^\circ$

C. more than $45^\circ$

D. less than $80^\circ$

**Answer: B**

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**118.** Which of the following is true?

A. two acute angles are supplementary

B. two obtuse angles are supplementary

C. two right angles are supplementary

D. two reflex angles are supplementary

**Answer: C**

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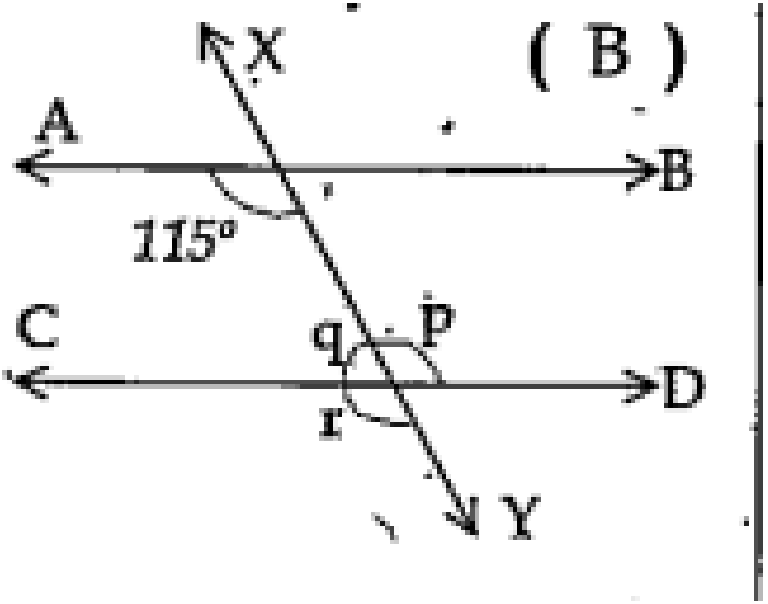
**119.** In the figure $\overrightarrow{AB} \mid\mid \overrightarrow{CD}$ and $\overrightarrow{XY}$ is a transversal which of the following is incorrect?




A. $\angle p = 115^\circ$

B. $\angle q = 115^\circ$

C. $\angle q = 65^\circ$

D. $\angle r = 115^\circ$

**Answer: B**

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**120.** The sum of two angles be supplementary if both are .....angles

A. acute

B. right

C. obtuse

D. none

**Answer: B**

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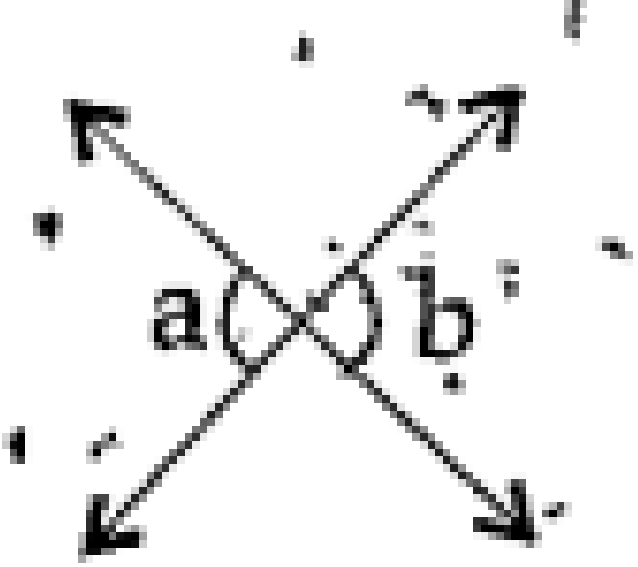
**121.** I.Assertion:`anglea=angleb

II.Reason:these are corresponding angles




A. StatementsI,II both are true

B. StatementsI,II both are false

C. StatementsI is true II IS false

D. StatementsI is False II IS true

**Answer: C**

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**122.** Two lines are parallel if the following statements are true

A. corresponding angles are equal

B. alternate interior angles are equal

C. cointerior angles are supplementary

D. all of the above

**Answer: D**

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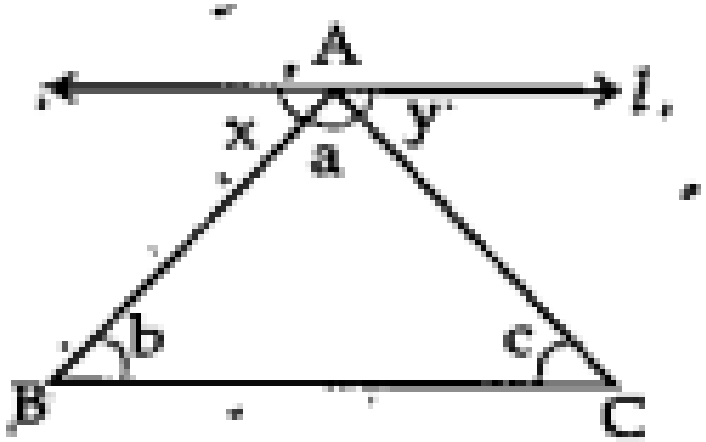
**123.** According to the adjacent figure which of the following is correct where l||BC?




A. b=y

B. c=x

C. a=b

D. a+b+c=x+a+y

**Answer: D**

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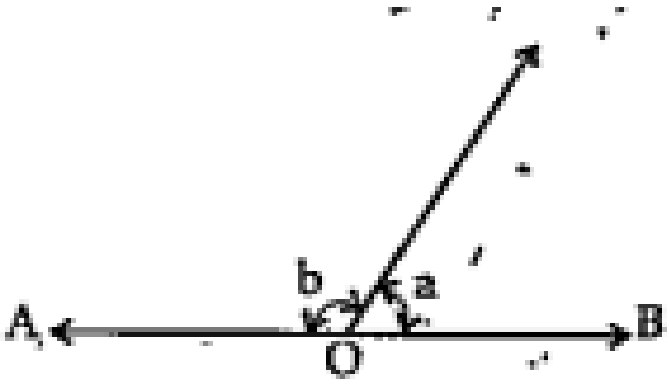
**124.** $\overrightarrow{OA}, \overrightarrow{OB}$ are two rays then which of the following is true?



A. $a + b = 90^\circ$

B. $a - b = 0^\circ$

C. $a + b = 180^\circ$

D. $a + b = 270^\circ$

**Answer: C**

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**125.** Two lines are intersected by a transversal the sum of the interior angles is $130^\circ$ then the lines are

A. parallel

B. equal

C. intersect

D. none

**Answer: C**

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**126.** adjacent angles in a linear pair are

A. $80^\circ, 20^\circ$

B. $60^\circ, 120^\circ$

C. $45^\circ, 90^\circ$

D. $70^\circ, 140^\circ$

**Answer: B**

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**127.** Two complementary angles are in the ratio of 7:2 then the angles are respectively

A. $20^\circ, 70^\circ$

B. $70^\circ, 20^\circ$

C. $140^\circ, 40^\circ$

D. $35^\circ, 10^\circ$

**Answer: B**

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**128.** Match the following

| Pair of Angles | Name |
|---|---|
| i) Sum of two angles is 180° | a) Linear pair |
| ii) Sum of two angles is 90° | b) btuse angle |
| iii) Having a common vertex and arm | c) Supplementary angles |
| iv) Sum of adjacent angles is 180° | d) Adjacent angles |
| v) Angle between 90° and 180° | e) Acute angle |
| | f) Complementary angles |

A. i-c,ii-f,ii-d,iv-a,v-b

B. i-a,ii-b,iii-d,iv-e,v-c

C. i-c,ii-f,iii-b,iv-d,v-a

D. i-a,ii-b,iii-c,iv-d,v-e

**Answer: A**

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**129.** Assume figure $\overrightarrow{AB} \mid \mid \overrightarrow{CD}$ and EF is a transversal if angle AGH $=60^\circ$ what is the measure of angle CHF?

A. $60^\circ$

B. $120^\circ$

C. $180^\circ$

D. $170^\circ$

**Answer: A**

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**130.** If the angles $(2a - 10)^\circ$ and $(a - 11)^\circ$ are supplementary what is the value of a?

A. $47^\circ$

B. $53^\circ$

C. $67^\circ$

D. $37^\circ$

**Answer: C**

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**131.** The angle of an equilateral triangle is

A. $90^\circ$

B. $80^\circ$

C. $180^\circ$

D. $60^\circ$

**Answer: D**

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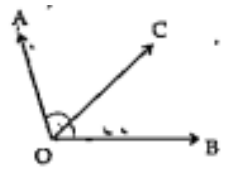
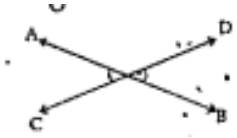
**132.** Which figure shows linear pair?

A. 


B. 


C.

D. above all

**Answer: C**

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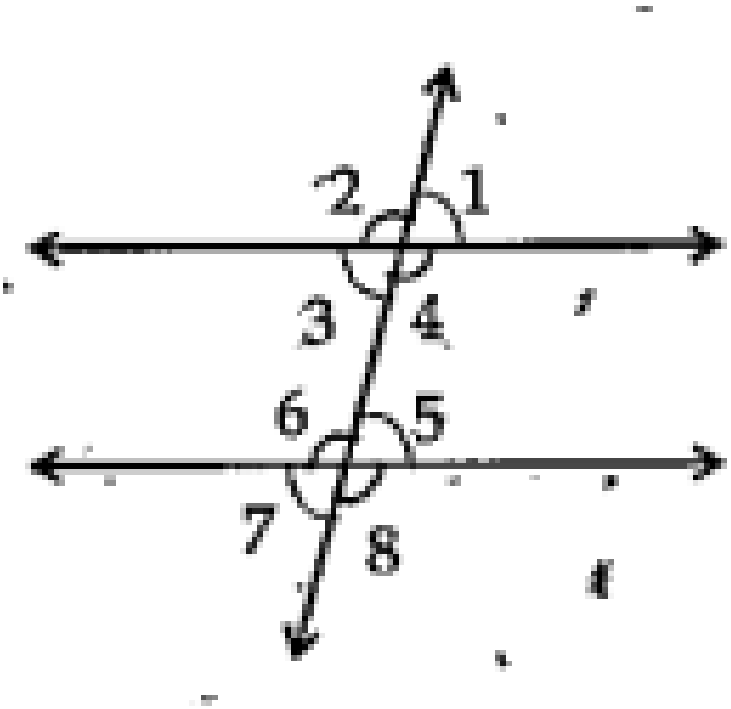
**133.** Pairs of vertically opposite angles in the given figure(i)2,4 and 1,3 (ii)5,7 and 6,8(iii)1,4

and 5,8 (iv)3,5 and 2,8




A. I and iv are true

B. ii and iii are true

C. I,ii are true

D. all are true

**Answer: C**

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**134.** The value of right angle is

A. $180^\circ$

B. $90^\circ$

C. $0^\circ$

D. $50^\circ$

**Answer: B**

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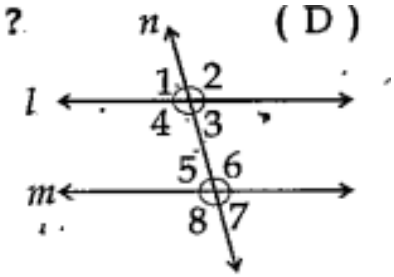
**135.** In the adjacent figure which of the following represents a pair of alternate exterior angles




A. $(\angle 1, \angle 8)$

B. $(\angle 2, \angle 7)$

C. $(\angle 1, \angle 7)$

D. $(\angle 2, \angle 6)$

**Answer: D**

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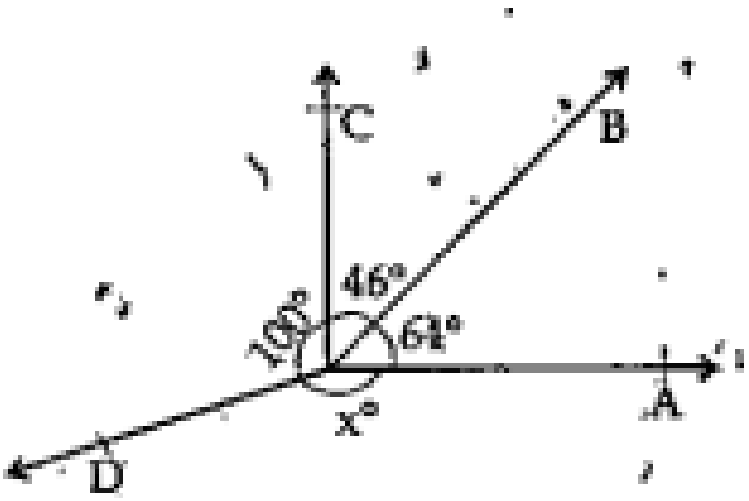
**136.** In the adjacent figure find the value of x



A. $110^\circ$

B. $46^\circ$

C. $64^\circ$

D. $150^\circ$

**Answer: D**

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**137.** The sum of two angles is $90^\circ$. Then they are called ___angles.

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**138.** The sum of two angles is $180^\circ$. Then they are called ___angles.

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**139.** If the sum of two angles is $360^\circ$ then the angles are called.....

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**140.** Fill in the Blanks : If the sum of two adjacent angles is $180^{\circ}$, then they are called _____of angles.

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**141.** Two angles are said to be adjacent angles if they have .....and.....lie on either side of the common arm

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**142.** When two straight line intersects the opposite angles at the point of intersection are called.....

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**143.** vertically opposite angles are .....

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**144.** Fill in the Blanks : A line which intersects other two lines at two distinct points is called ___.

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**145.** The complementary angle of $39^\circ$ is

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**146.** The supplementary angle of $51^\circ$ is

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**147.** Fill in the Blanks : The conjugate angle of 275 is___.

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**148.** If $x - y = 80^\circ$ and

then the value of x=....and y=....

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**149.** The sum of co interior angles is

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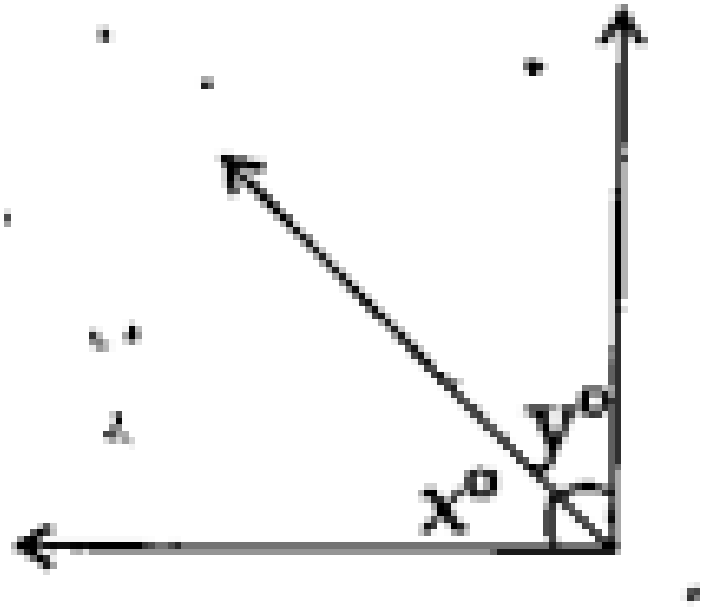
**150.** What is the relation between x and y in the given figure



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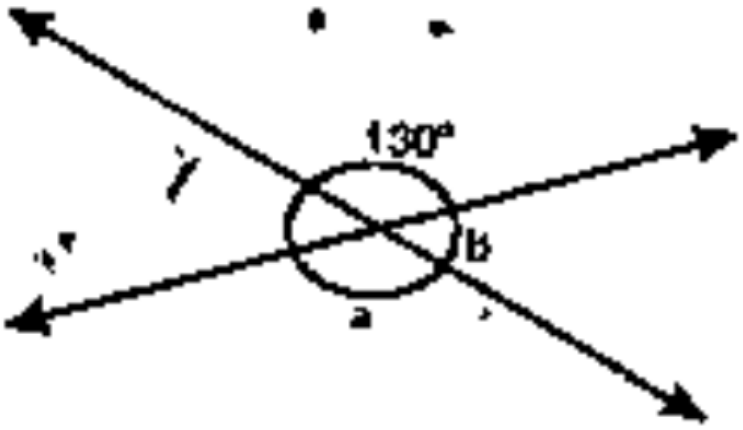
**151.** The value of a and b of adjacent figure

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**152.** Angle between any two parallel lines is .....

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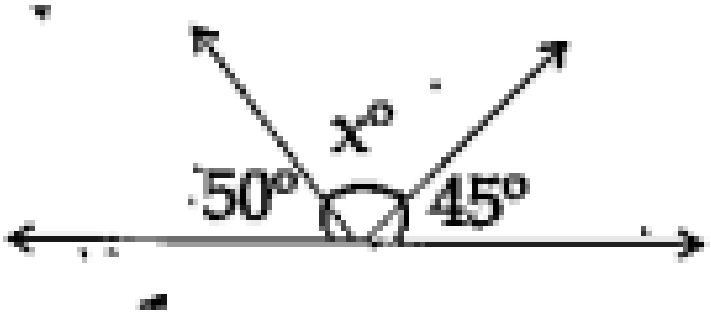
**153.** The value of $x^0$ in the adjacent figure is

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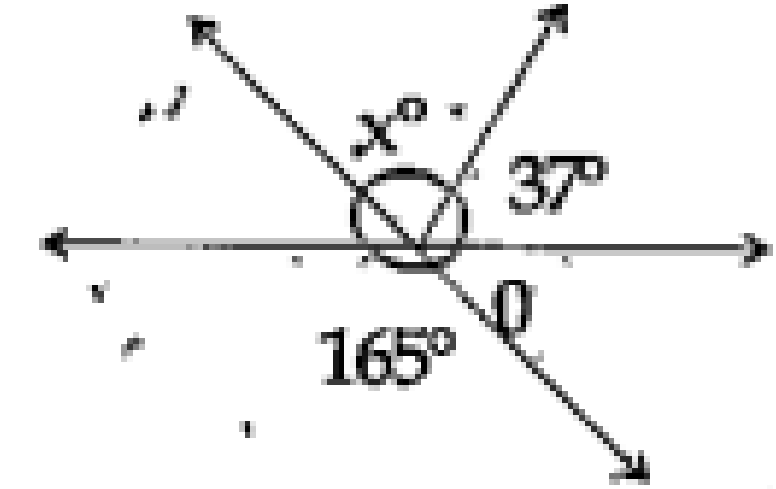
**154.** The value of $x^0$ in the adjacent figure is

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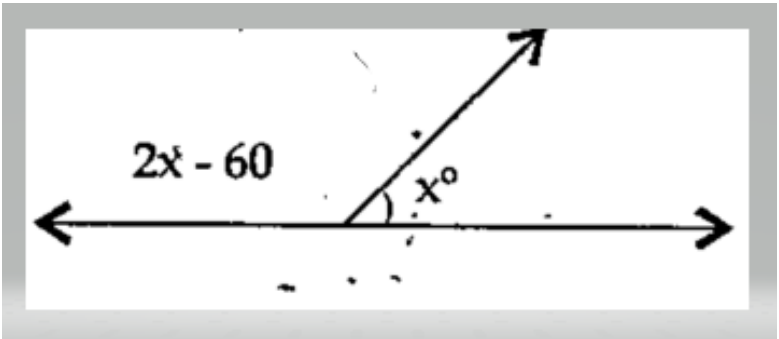
**155.** The value of $x^0$ in the adjacent figure is

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**156.** Define complementry angles

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**157.** Find the complementry angles of $13^\circ$

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**158.** Find the complementary angles of $43^\circ$

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**159.** Find the complementry angles of $74^\circ$

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**160.** Findthe complementary angles of $2^\circ$

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**161.** Find the supplementary angles of $97^\circ$

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**162.** Findthe supplementary angles of $46^\circ$

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**163.** Find the supplementry angles of $60^\circ$

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**164.** Find the supplementry angles of $18^\circ$

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**165.** Find the conjugate angles of $74^\circ$

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**166.** Find the conjugate angles of $180^\circ$

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**167.** Find the conjugate angles of $300^\circ$

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**168.** Find the conjugate angles of $209^\circ$

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**169.** True or False

$53^\circ, 27^\circ$ are complementary angles

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**170.** When a traversal intersects two lines and a pair of alternate co exterior angles are eqaul what can you say about the two lines?

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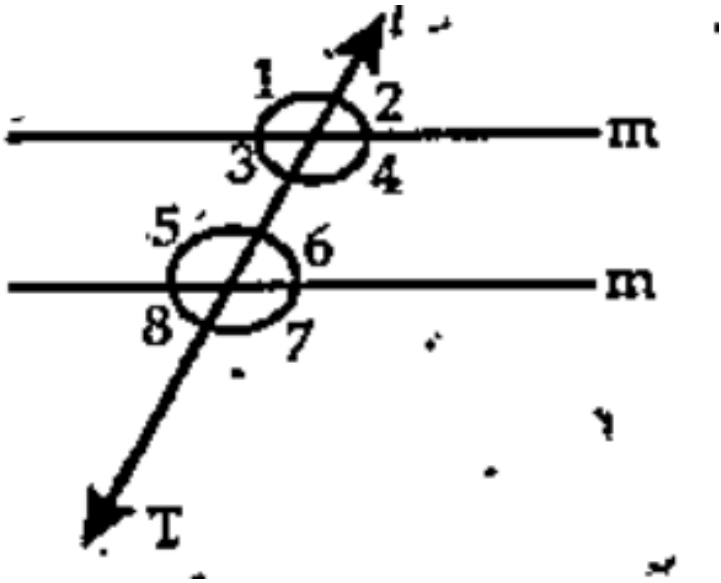
**171.** In the given figure




$\angle 3, \angle 4, \angle 5, \angle 6$ are exterior angles(True/False)

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**172.** Find the angle which is equal to its complement

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**173.** Find the angle which is equal to its supplement.

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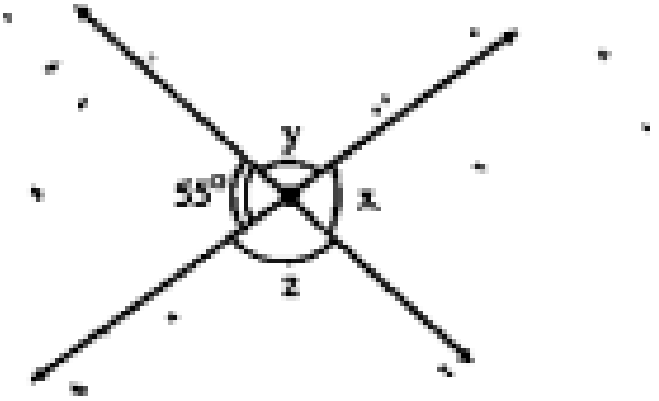
**174.** Find the values of the angles x,y and z

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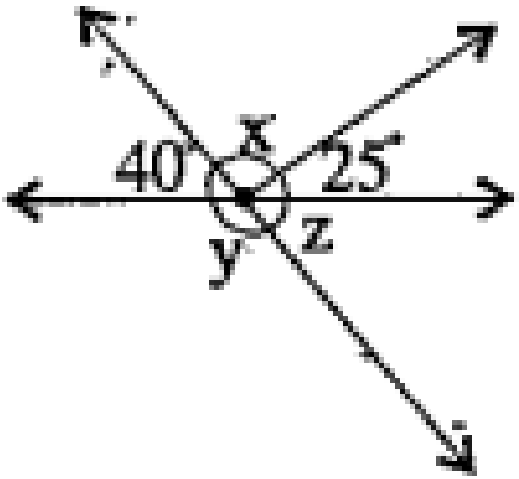
**175.** Find the values of the angles

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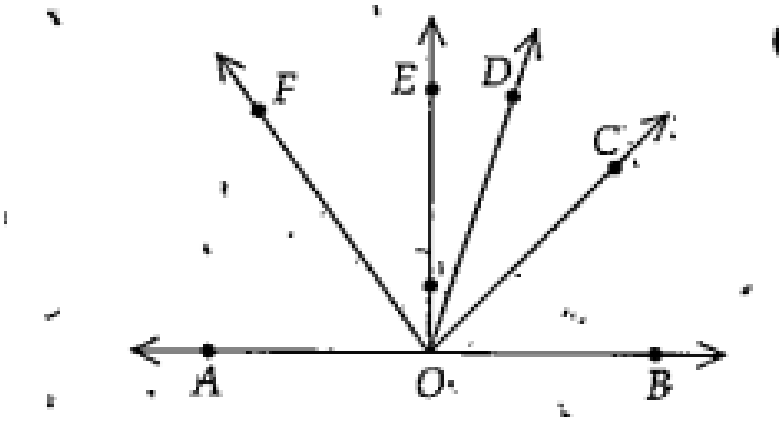
**176.** Name all the possible angles you can find in the following figure which are

acute,right,obtuse and straight angles?

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**177.** If two angles are supplementary then they are

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**178.** If two angles are supplementary then they are

**179.** The sum of two angles be supplementary if both are .....angles

**180.** Two complementary angles differ by $12^\circ$ find the angles?

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**181.** among two supplementary angles the measure of the larger angle is $44^\circ$ more than the measure of the smaller find their measures.

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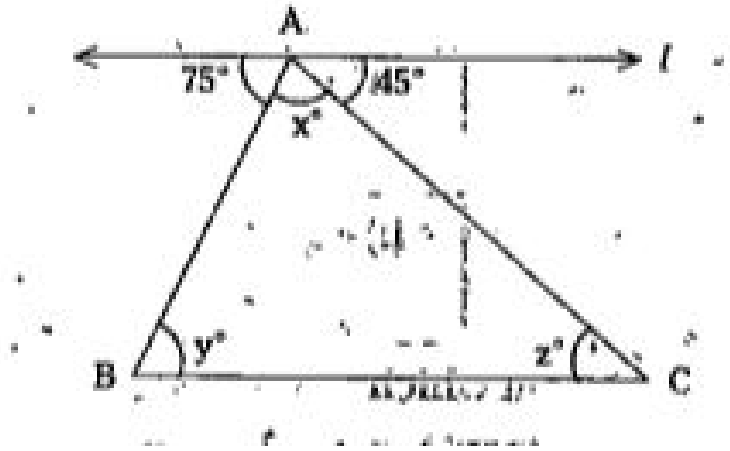
**182.** Find the measures of x, y and z in the figure, where L / / BC.

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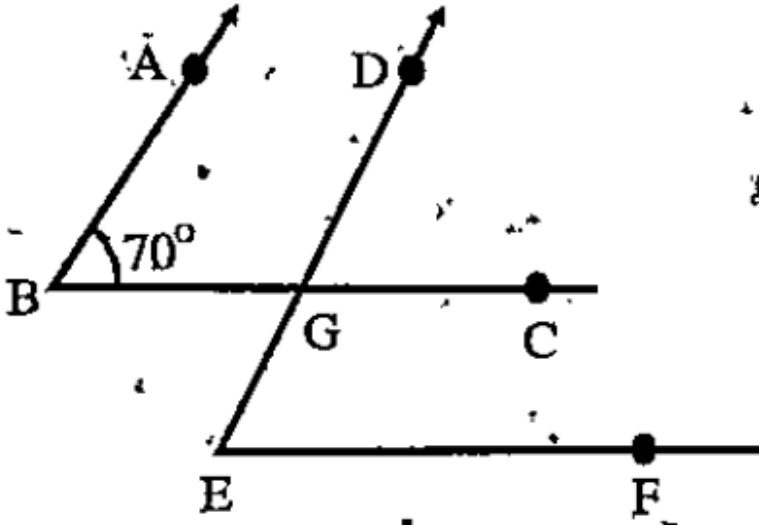
**183.** In th given figure the arms of two angles are parallel if $\angle ABC = 70^\circ$ then find $\angle DGC$

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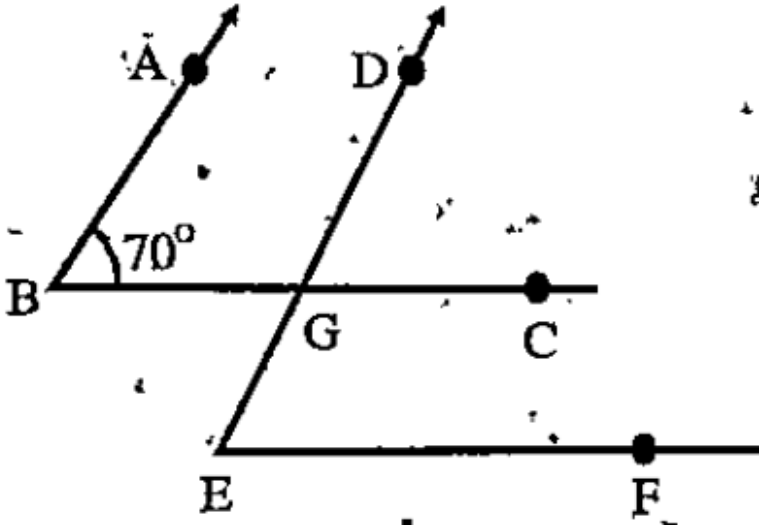
**184.** In th given figure the arms of two angles are parallel if $\angle ABC = 70^\circ$ then find $\angle DEF$

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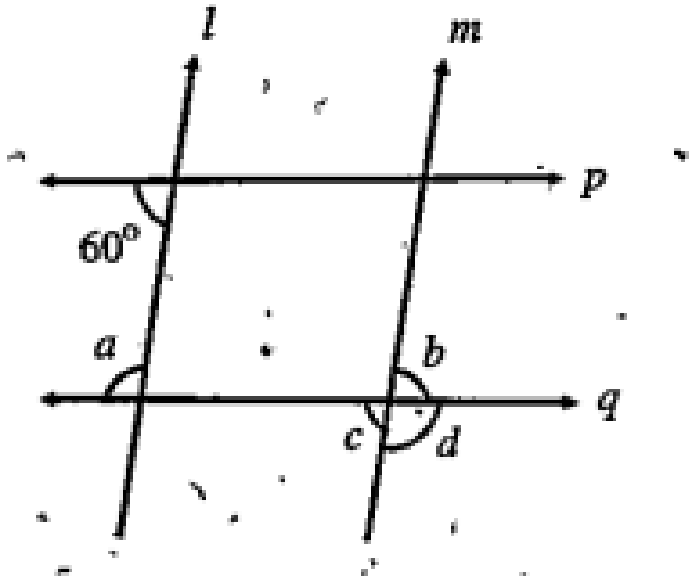
**185.** Lines l//m,p//q, Find a,b,c,d

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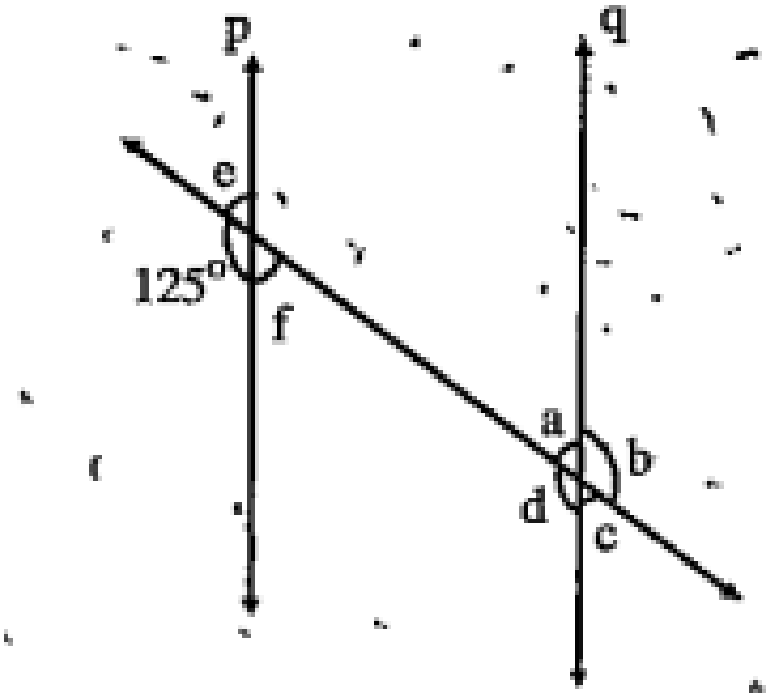
**186.** In the adjoining figure p//q find the unknown angles

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**187.** Find the complementary angle : $25^\circ$

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**188.** Find the complementary angle : $40^\circ$

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**189.** Find the complementary angle : $89^\circ$

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**190.** Find the complementry angle of $55^\circ$

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**191.** Find the supplementary angles of the given angles $105^\circ$

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**192.** Find the supplementary angles of the given angles $95^\circ$

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**193.** Find the supplementary angles of the given angles $150^\circ$

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**194.** Find the supplementary angles of the given angles $20^\circ$

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