MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

ANGLES AND THEIR MEASUREMENT

Exercise A

1. Which is example of angles from your daily life?
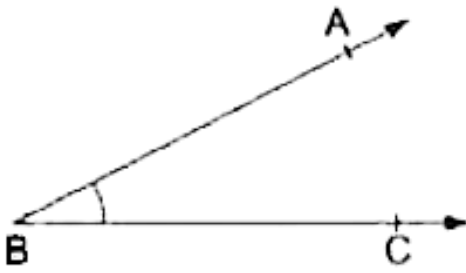
A. scissors

B. a pair of compasses,

C. tongs

D. All of the above

Answer: D

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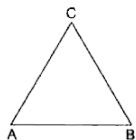**2.** Name the vertex and the arms of $\angle ABC$, given in the figure below,

A. Vertex is AC and arms are $\overrightarrow{BA}$ and $\overrightarrow{BC}$

B. Vertex is C and arms are $\overrightarrow{BA}$ and $\overrightarrow{BC}$

C. Vertex is B and arms are $\overrightarrow{BA}$ and $\overrightarrow{BC}$

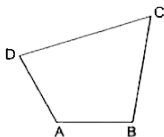D. Vertex is A and arms are $\overrightarrow{BA}$ and $\overrightarrow{BC}$
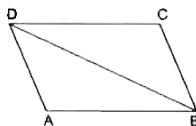
Answer: C

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3. How many angles are formed in each of the figures given below? Name them.
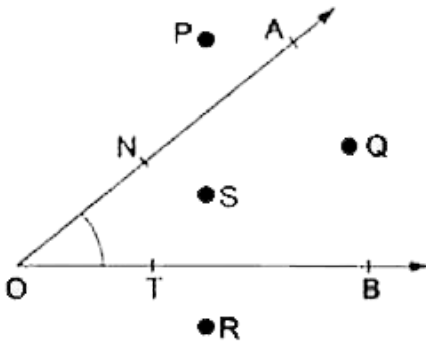

(i) (ii) (iii)

4. In the given figure. List the points which.

(i) are in the interior of $\angle AOB$

(ii) are the exiterior of $an \geq AOB$

(iii) lie on $\angle AOB$

5. See the adjacent figure and state which of the folowing statement are true and which are false.
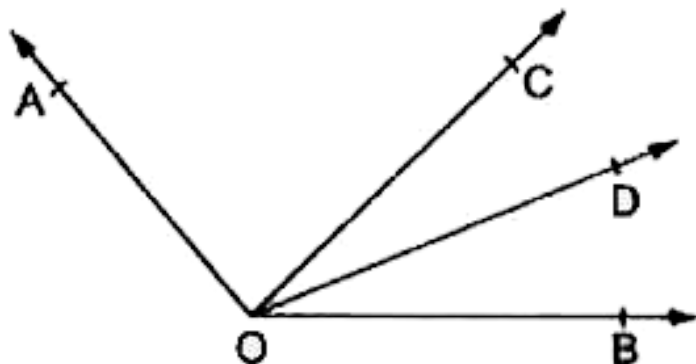
(i) Point C is in the interior of $\angle AOC$.

(ii) Point C is in the interior of $\angle AOD$.

(iii) Point D is in the interior of $\angle AOC$.

(iv) Point B is in the exierior of $\angle AOD$.
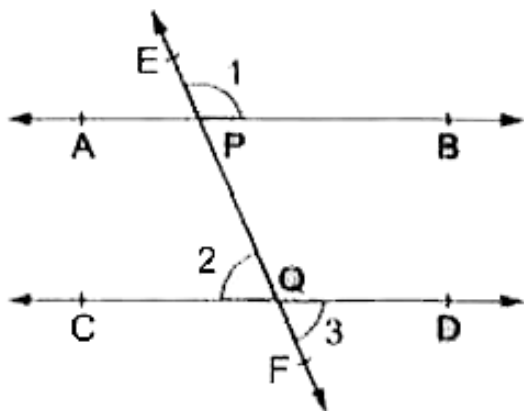
(v) Point C lies on $\angle AOB$.

6. In the adjoining figure, write another name

for:

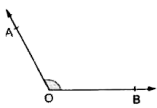(i) $\angle 1$ (ii) $\angle 2$ (iii) angle 3`
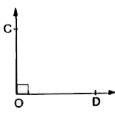
Exercise B

1. State the type of each of the following angles:
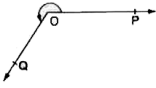
(i)   (ii)   (iii)

(iv)   (v)   (vi)
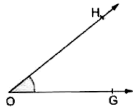
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2. Classify the angles whose magnitudes are given below: (i) $30°$ (ii) $91°$ (iii) $179°$ (iv) $90°$ (v) $181°$ (vi) $360°$ (vii) $128°$ (viii) $(90.5)°$ (ix) $(38.3)°$ (x) $80°$ (xi) $0°$ (xii) $15°$

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3. How many degrees are there in.

(i) one right angle? (ii) two right angles ?

(iii) three right angles ? (iv) four right angles ?

(v) $\dfrac{2}{3}$ right angle ? (vi) $1\dfrac{1}{2}$ right angles ?

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4. How many degrees are there in the angle between the hour hand and minute hand of a clock. When it is.

(i) 3 o'clock?

(ii) 6 o'clock ?

(iii) 12 o'clock?

(iv) 9 o'clock?

A. (i) $90°$

   (ii) $180°$

   (iii) $0°$

   (iv) $90°$

B. (i) $80°$

   (ii) $200°$

   (iii) $0°$

   (iv) $90°$

C. (i) $90°$

(ii) $180°$

(iii) $60°$

(iv) $90°$

D. (i) $30°$

(ii) $180°$

(iii) $60°$

(iv) $90°$

Answer: A

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5. Using only a rular , draw an acute angle, an obtuse angle and a staight angle.
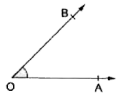
Exercise C

1. Measure each of the following angle with the help of a protractor and write the measure
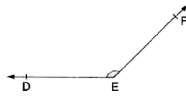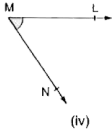
in degrees:

(i) (ii) (iii) (iv) (v) (vi)
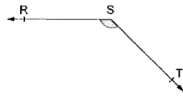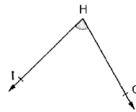
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2. Construct each of the following angle with the help of a protractor: .

(i) $25°$ (ii) $72°$ (iii) $90°$ (iv) $117°$

(v) $165°$ (vi) $23°$ (vii) $180°$ (vii) $48°$

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3. Measure $\angle ABC$ given in the adjoining figure and construct an angle DEF equal to $\angle ABC$.
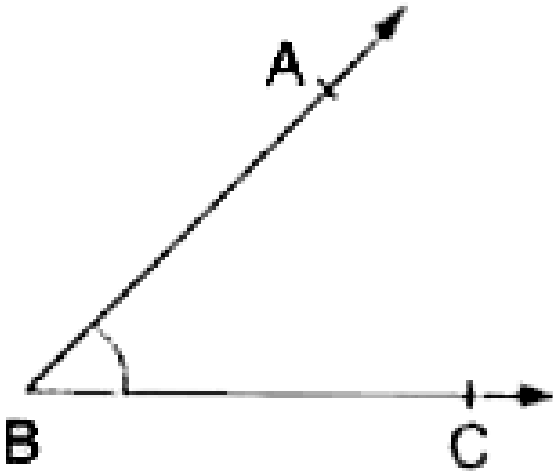
4. Draw a line segment AB = 6 cm. Take a point C on AB such tht AC = 4 CM. From C, draw CD ⊥ AB.

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Exercise D

1. Where does the vertex of an angle lie?

    A. In its interior

B. In its exterior

C. On the angle

D. None of these

Answer: C

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2. The figure formed by two rays with the same initial point is called.

A. a ray

B. a line

C. an angle

D. none of these

Answer: C

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3. An angle measuring $180°$ is called

A. a complete angle

B. a reflex angle

C. a straight angle

D. none of these

Answer: C

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4. An angle measuring $90°$ is called

A. a straight angle

B. a right angle

C. a complete angle

D. a reflex angle

Answer: B

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5. An angle measuring $91°$ is

A. an acute angle

B. an obtuse angle

C. a reflex angle

D. none of these

Answer: B

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6. An angle measuring $270°$ is

    A. an obtuse angle

    B. an acute angle

    C. a straight angle

    D. a reflex angle

Answer: D

7. The measure of a straight angle is

A. 90°

B. 150°

C. 180°

D. 360°

Answer: C

8. An angle measuring $200°$ is

    A. an obtuse angle

    B. an acute angle

    C. a reflex angle

    D. None of these

Answer: C

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9. An angle measuring $360°$ is

    A. a reflex angle

    B. an obtuse angle

    C. a straight angle

    D. a complete angle

Answer: D

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10. A reflex angle measures

    A. more than $180°$ but less than $270°$

    B. more than $180°$ but less than $360°$

    C. more than $90°$ but less than $180°$

    D. none of these

Answer: B

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11. 2 right angle = ?

A. 90°

B. 180°

C. 270°

D. 360°

Answer: B

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12. $\dfrac{3}{2}$ right angle = ?

A. 115°

B. 135°

C. 270°

D. 230°

Answer: B

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13. If a bicycle wheel has 36 spokes, then the angle between a pair of adjacent spokes is

  A. $15°$

  B. $12°$

  C. $10°$

  D. $18°$

Answer: C