MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

LINES AND ANGLES

Examples

1. Find the complement of each of the following angles:

60°

25°

72°

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2. Find the angle which is its own component.

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3. Find the supplementof each of the folowing angles:

125°

64°

38°

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4. Find the angle which is double of its supplement.

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5. In the given.AB a straight line $\text{and} \leq BOC = 65^\circ$

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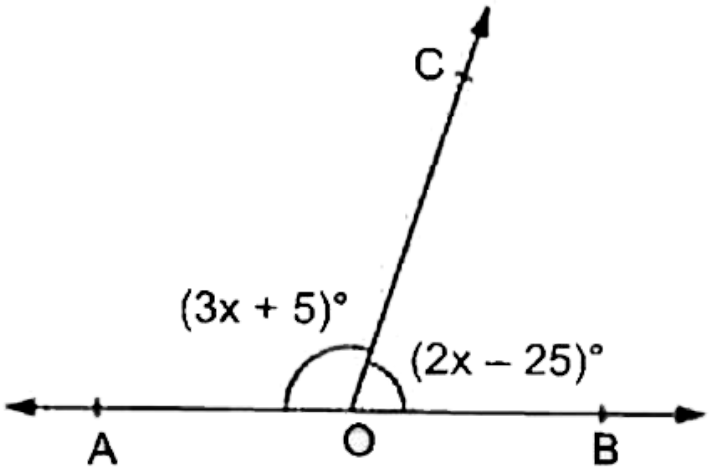
6. In the adjoining figure, What value of x will make AOB a straight-line?



A. $x = 32^\circ$

B. $x = 45^\circ$

C. $x = 36^\circ$

D. $x = 40^\circ$

Answer: D

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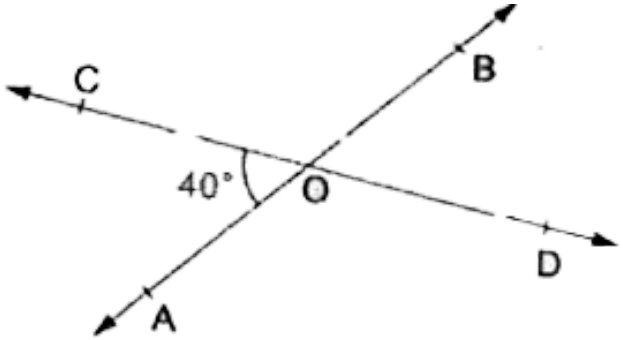
7. Two lines AB and CD intersect at a point O. $\angle AOC = 40^\circ$,find the measure of each of the angles

$\angle AOD, \angle BOD$ and $\angle BOC$.



A.

$\angle AOD = 160^\circ, \angle BOD = 40^\circ$ and $\angle BOC = 160^\circ$

B.

$\angle AOD = 110^\circ, \angle BOD = 40^\circ$ and $\angle BOC = 110^\circ$

C.

$\angle AOD = 140^\circ, \angle BOD = 40^\circ$ and $\angle BOC = 140^\circ$

D.

$\angle AOD = 150^\circ, \angle BOD = 50^\circ$ and $\angle BOC = 140^\circ$

Answer: C

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Exercise 13

1. Find the complement of each of the following angles:

35° 47° 60° 73°

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2. Find the supplement of each of the following angles:

80°

54°

105°

123°

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3. Among the two supplementary angles, the measure of the larger angles is 36° more than the measure of the smaller. Find the smaller one?

A. 72°

B. 18°

C. 48°

D. 30°

Answer: A

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4. Find the angle which is equal to its supplement.

A. 90°

B. 45°

C. 60°

D. None of these

Answer: A

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5. Can two angles be supplementary if both of them are:

(i) acute? (ii) obtuse? (iii) right?

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6. In the given figure .AOB is straight a straight line and the ray OC stands on it.If $\angle AOC = 64^\circ$ and $\angle BOC = x^\circ$,Find the value of x.

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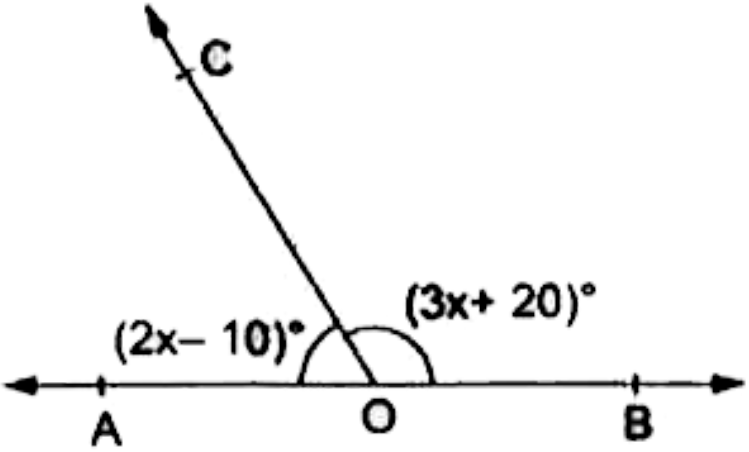
7. In the given figure AOB is a straight line and the ray OC stands on it

If $\angle AOC = (2x - 10)^\circ$ and $\angle BOC = (3x + 20)^\circ$.

Find the value of x.Also,find $\angle AOC$ and $\angle BOC$.



A. $30^0, 58^0, 122^0$

B. $34^0, 59^0, 152^0$

C. $34^0, 58^0, 122^0$

D. $94^0, 58^0, 122^0$

Answer: C

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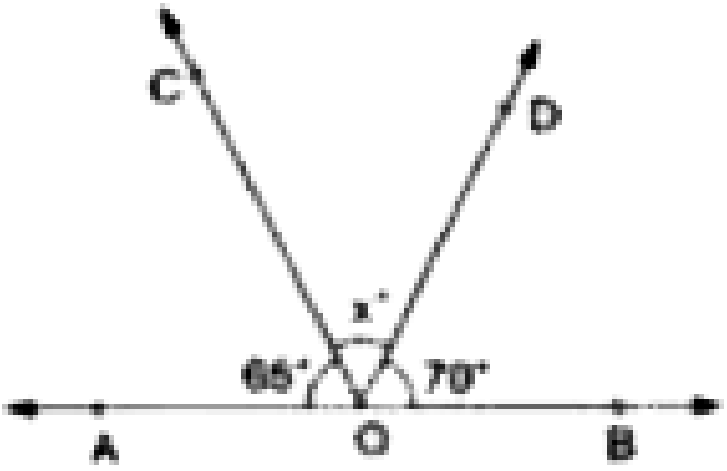
8. In the figure.AOB is a straight line and rays OC and OD stand on it.

$\angle AOC = 65^\circ, \angle BOD = 70^\circ$ and $\angle COD = x^\circ$,find the value of x.



A. 45°

B. 55°

C. 40°

D. 46°

Answer: A

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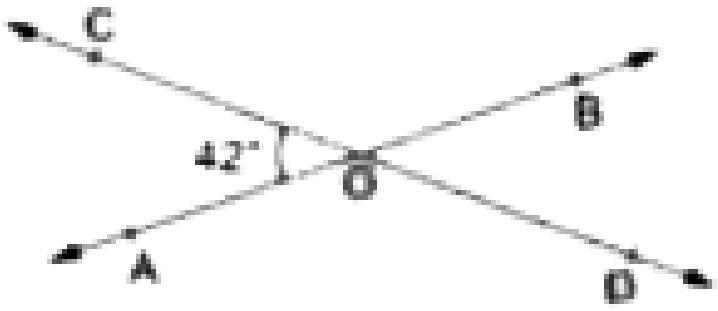
9. In the given figure,two straight line AB and CD intersect at a point O.

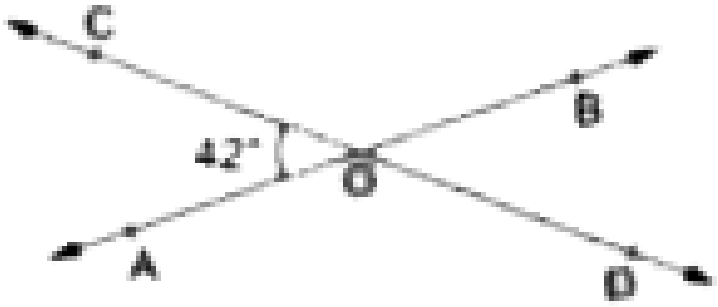
If $\angle AOC = 42^\circ$,Find the measure of each of the angles:

$\angle AOD$



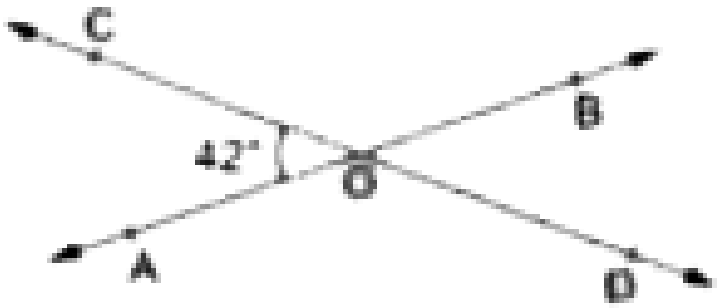
If $\angle AOC = 42^\circ$,Find the measure of each of the angles:

$\angle BOD$



If $\angle AOC = 42^\circ$,Find the measure of each of the angles:

$an \leq COB$



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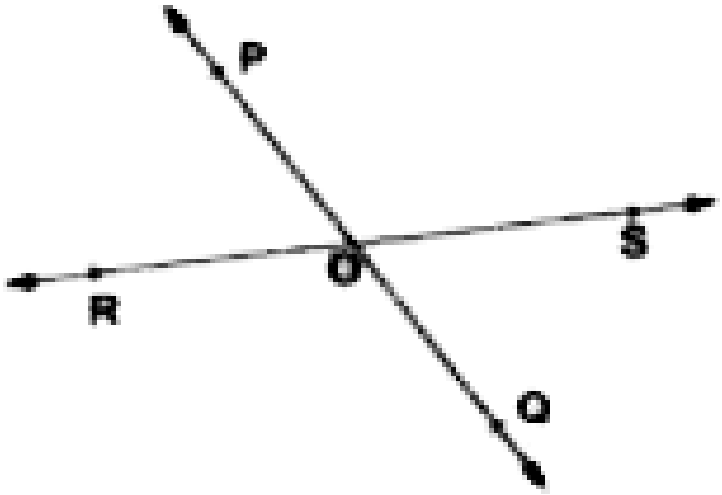
10. In the given figure ,two straight line PQ and RS intersect at O.If $\angle POS = 114^\circ$,find the measures of each of the angles :

$\angle POR$



$\angle ROQ$

$\angle QOS$

A. $\angle ROQ = 114^\circ$

$\angle QOS = 66^\circ$

B. $\angle ROQ = 116^\circ$

$\angle QOS = 77^\circ$

C. $\angle ROQ = 117^\circ$

$\angle QOS = 67^\circ$

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

$\angle QOS = 76^\circ$

Answer: A

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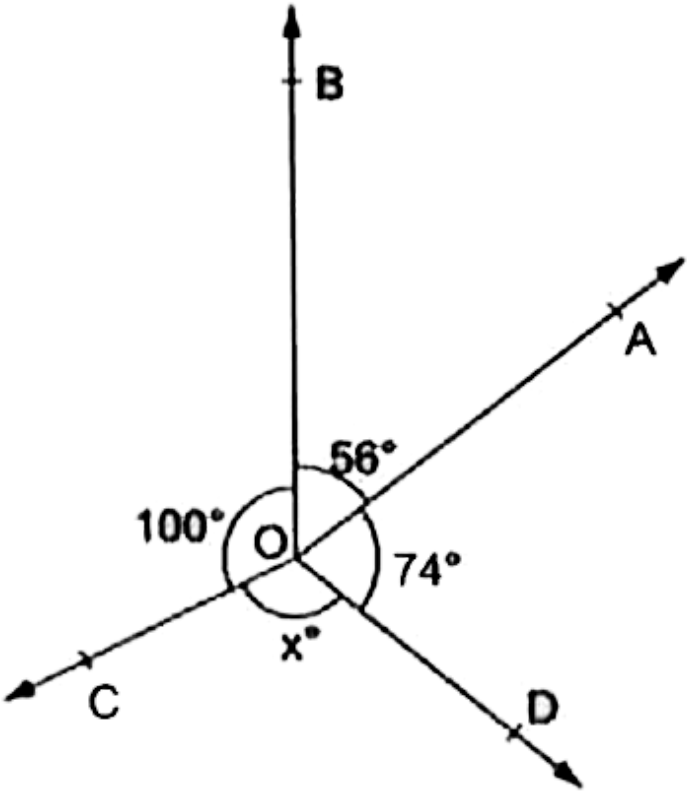
11. In the given figure,rays OA, OB, OC and OD are such that $\angle AOB = 56^\circ, \angle BOC = 100^\circ, \angle COD = x^\circ$

and $\angle DOA = 74^\circ$,Find the value of x.



A. $x = 90^\circ$

B. $x = 130^\circ$

C. $x = 120^\circ$

D. $x = 110^\circ$

Answer: B

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