

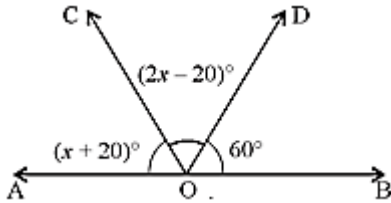
LINES AND ANGLES

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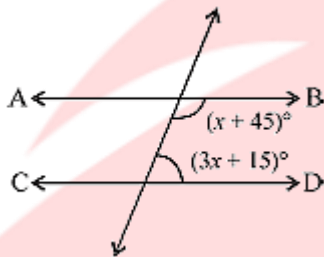
Multiple Choice Questions :

1 mark each

1. In the figure, AOB is a straight line. The measure of $\angle COD$ is equal to :



- (a) 60° (b) 80° (c) 120° (d) 160°
2. If one of the four angles formed by two intersecting lines is a right angle, then each of four angles is:
- (a) an acute angle (b) a right angle (c) an obtuse angle (d) none of these
3. In the given figure, $AB \parallel CD$, the value of x is equal to:

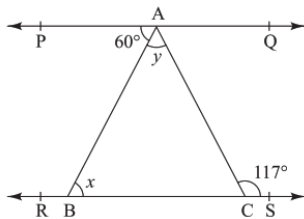


- (a) 60° (b) 75° (c) 45° (d) 30°
4. Angles of a triangle are in the ratio 2 : 4 : 3. The smallest angle of the triangle is:
- (a) 60° (b) 40° (c) 80° (d) 20°
5. Find the measure of the angle which is complement of itself.
- (a) 30° (b) 90° (c) 45° (d) 180°

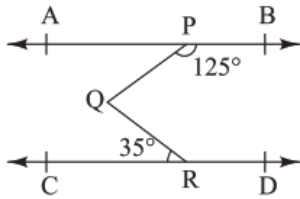
Very Short Answer Type Questions :

2 marks each

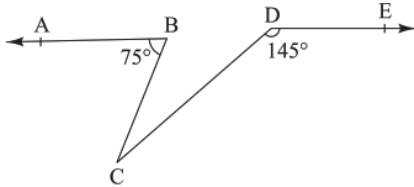
6. In the figure, if $PQ \parallel RS$, $\angle PAB = 60^\circ$ and $\angle ACS = 117^\circ$, then find $(x - y)$.



7. In the figure, if $AB \parallel CD$, then find $\angle PQR$.



8. In the figure, $AB \parallel DE$, $\angle ABC = 75^\circ$ and $\angle CDE = 145^\circ$, then find $\angle BCD$.



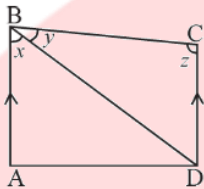
Short Answer Type Questions :

3 marks each

9. In $\triangle ABC$, if $\angle A - \angle B = 15^\circ$, $\angle B - \angle C = 30^\circ$, find $\angle A$, $\angle B$ and $\angle C$.

10. A triangle ABC is right angled at A . L is a point on BC such that $AL \perp BC$. Prove that $\angle BAL = \angle ACB$.

11. In the given figure, $AB \parallel DC$. If $x = \frac{4}{3}y$ and $y = \frac{3}{8}z$, find the values of x , y and z .



Long Answer Type Questions :

5 marks each

12. P is a point equidistant from two lines l and m intersecting at a point A . Show that AP bisects the angle between them.

13. In the figure, $l \parallel m$, show that $\angle 1 + \angle 2 - \angle 3 = 180^\circ$.

