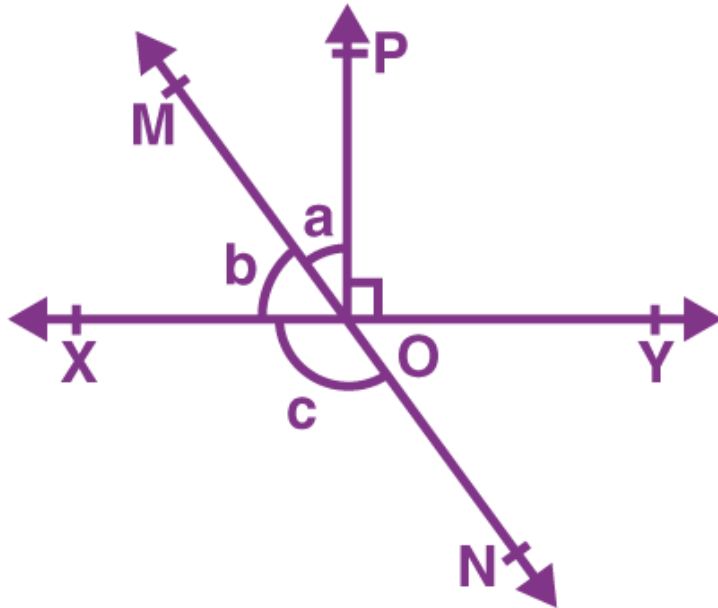
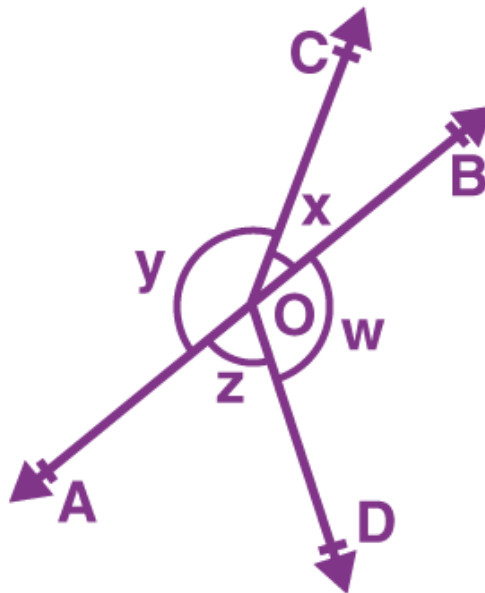


Lines And Angles Worksheet For Class 9

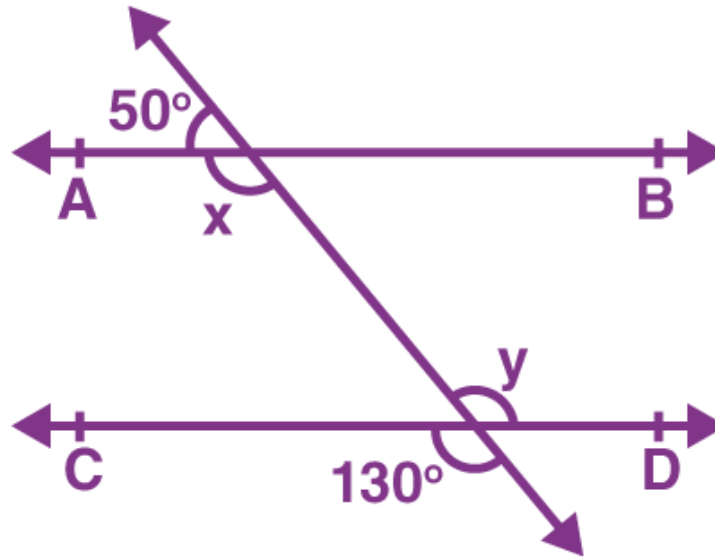
1. From the figure, lines XY and MN intersect at O . If $\angle POY = 90^\circ$ and $a : b = 2 : 3$, find c .



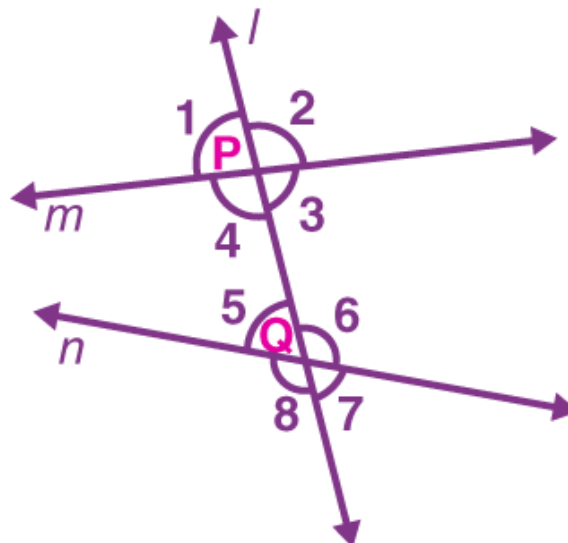
2. In the figure, if $x + y = w + z$, then prove that AOB is a line.



- If a transversal intersects two lines such that the bisectors of a pair of corresponding angles are parallel, then prove that the two lines are parallel.
- Find the values of x and y from the below figure.



- Classify the angles which are congruent to each other in the below figure.



- What is the sum of the angles of a triangle?

7. If two interior angles on the same side of a transversal intersecting two parallel lines are in the ratio 2 : 3, then the greater of the two angles is
 - (A) 54°
 - (B) 108°
 - (C) 120°
 - (D) 136°

8. The angles of a triangle are in the ratio 5 : 3 : 7. The triangle is
 - (A) an acute angled triangle
 - (B) an obtuse angled triangle
 - (C) a right triangle
 - (D) an isosceles triangle

9. The angles of a triangle are in the ratio 4 : 2 : 3. Find the angles of the triangle.

10. If the sum of two adjacent angles is 180° , then the non-common arms of the angles form a line.
True/False