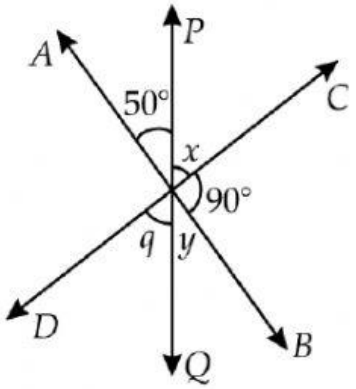
Concept_Grade-9_Lines And Angles

Linear Pair and Vertically Opposite Angles

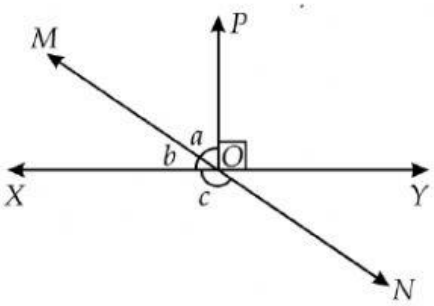
1. In figure below, calculate the value of angle q



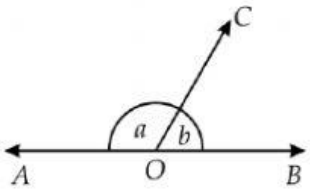
2. If (3x - 15°) and (x + 5°) are complementary angles, find the angles.

3. Two supplementary angles are in the ratio 2 : 3 find the angles.

4. In the figure, lines XY and MN intersect at O. If ∠POY = 90° and a: b = 2: 3, find the value of c.



5. In the given figure, ∠AOC and ∠BOC form a line AB. If a -b = 80°, find the values of a and b.



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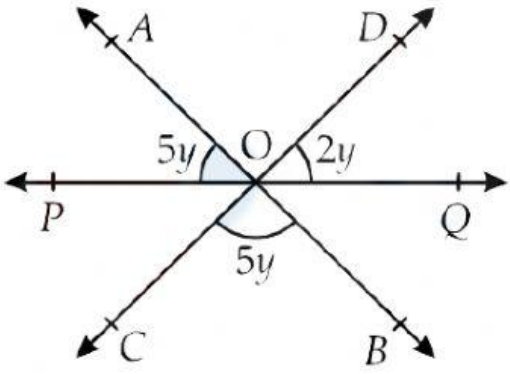
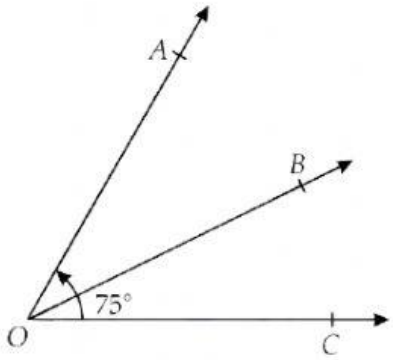
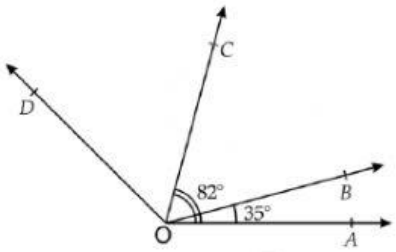
6. If ∠AOP = 5y, ∠QOD = 2y and ∠BOC = 5y in the given figure, find the value of y



7. In the given figure, ∠AOB : ∠BOC =2: 3 If ∠AOC = 75°, then find the measure of ∠AOB and ∠BOC.



8. In figure, ∠DOB = 87° and ∠COA = 82°. If ∠BOA = 35°, then find ∠COB and ∠COD.



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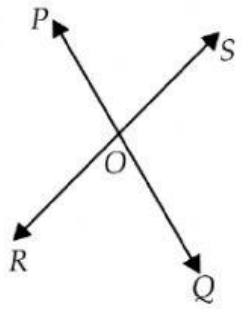
9. In the figure PQ and RS intersect each other at point O. If ∠POR : ∠ROQ = 2 : 3, Find ∠POR and ∠ROQ.



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