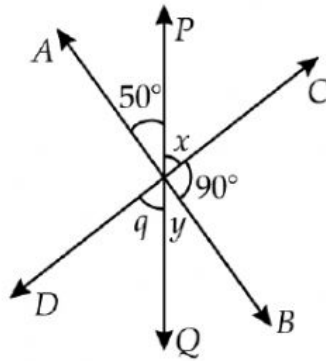


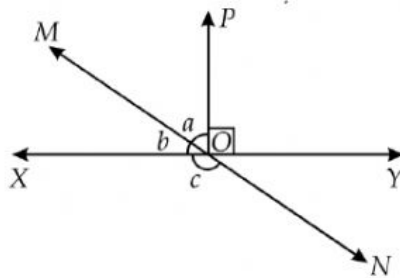
Concept_Grade-9_Lines And Angles

Linear Pair and Vertically Opposite Angles

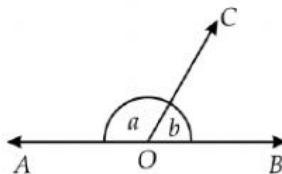
1. In figure below, calculate the value of angle q



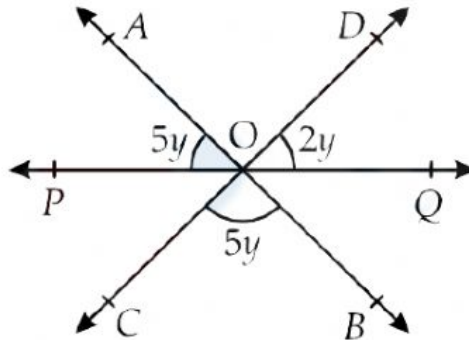
2. If $(3x - 15^\circ)$ and $(x + 5^\circ)$ are complementary angles, find the angles.
3. Two supplementary angles are in the ratio 2 : 3 find the angles.
4. In the figure, lines XY and MN intersect at O. If $\angle POY = 90^\circ$ and $a : b = 2 : 3$, find the value of c .



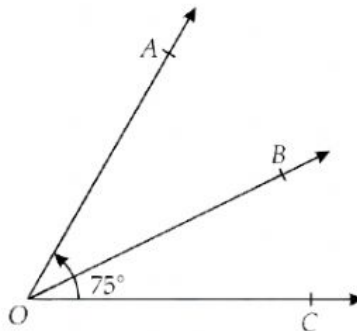
5. In the given figure, $\angle AOC$ and $\angle BOC$ form a line AB. If $a - b = 80^\circ$, find the values of a and b .



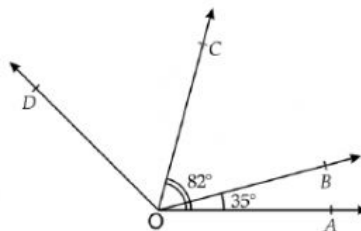
6. If $\angle AOP = 5y$, $\angle QOD = 2y$ and $\angle BOC = 5y$ in the given figure, find the value of y



7. In the given figure, $\angle AOB : \angle BOC = 2 : 3$. If $\angle AOC = 75^\circ$, then find the measure of $\angle AOB$ and $\angle BOC$.



8. In figure, $\angle DOB = 87^\circ$ and $\angle COA = 82^\circ$. If $\angle BOA = 35^\circ$, then find $\angle COB$ and $\angle COD$.



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

