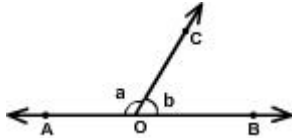


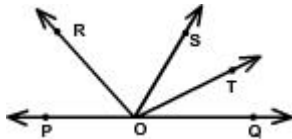
CBSE TEST PAPER-2
CHAPTER :LINES AND ANGLES
MATHEMATICS CLASS IX

Q1. Find the measure of an angle, if seven times its complement is 10 less than three times its supplement.

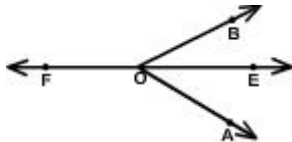
Q2. In the given figure, $\angle AOC$ and $\angle BOC$ form a linear pair. If $a - b = 80$ find the value of a and b .



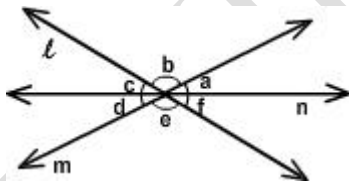
Q3. In the figure, ray OS stands on a line POQ. Rays OR and OT are the angle bisectors of $\angle POS$ and $\angle SOQ$ respectively. If $\angle POS = x$. Find $\angle ROT$.



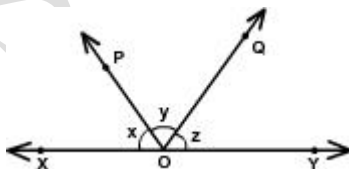
Q4. The ray OE bisects $\angle AOB$ and OF is the ray opposite to OE, show that $\angle FOB = \angle FOA$.



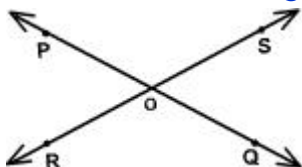
Q5. In the figure three coplanar lines intersect in a common point, forming angles as shown. If $a = 45$, $e = 50$ then find angles b , c , d and f .



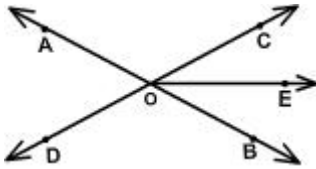
Q6. In the given figure, $x : y : z = 5 : 4 : 6$. If XOY is a straight line, find the values of x , y and z .



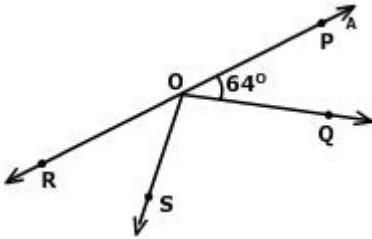
Q7. Two lines PQ and RS intersect at a point O such that $\angle POS + \angle ROQ = 280$. Find all four angles.



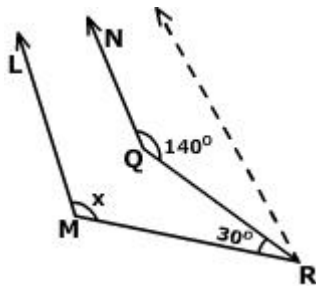
- Q8. Two straight lines AB and CD intersect each other at point O. If $\angle AOC = 48^\circ$ and OE bisects $\angle BOC$, find $\angle EOD$.



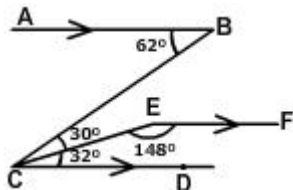
- Q9. $\angle POQ = 64^\circ$, Arm PO is produced upto point R and OS is the bisector of $\angle QOR$. Find the measure of $\angle POS$.



- Q10. In the given figure LM \parallel NQ. Find the value of x.

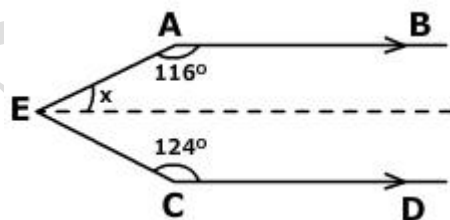


- Q11. In the given figure, prove that AB \parallel EF.

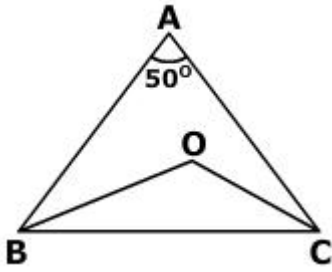


- Q12. If the arms of one angle are respectively parallel to the arms of another angle, show that the two angles are either equal or supplementary.

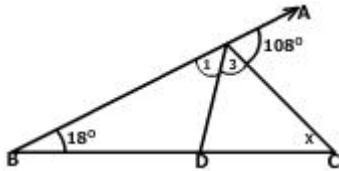
- Q13. If AB \parallel CD, find the value of x.



- Q14. In the figure, the bisectors of $\angle B$ and $\angle C$ meet at O. Find $\angle BOC$.



Q15. In the given figure, AD divides $\angle BAC$ in the ratio 1:3 and $AD = DB$. Determine the value of x .



- Q16. If the sides of a triangle are produced in order, prove that the sum of the exterior angles so formed is equal to four right angles.
- Q17. If one angle of a triangle is equal to the sum of the other two angles, show that the triangle is a right angled triangle.
- Q18. Two angles of a triangle are equal and the third angle is greater than each one of them by 18° . Find all the angles.
- Q19. If two straight lines are perpendicular to the same line, prove that they are parallel to each other.
- Q20. If two parallel lines are intersected by a transversal, prove that the bisectors of the two pairs of interior angles enclose a rectangle.

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