

M.M. 25

Lines and Angles

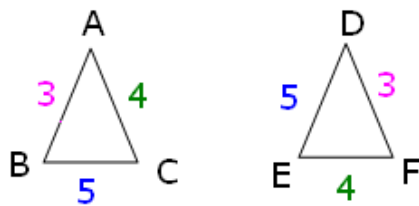
Time 1 hour

Section A 1 mark each

Q1. In an isosceles triangle vertical angle is _____

Q2. In an isosceles triangle equal angles have _____

Q3. In $\triangle ABC \cong \triangle$ _____



Q4. A triangle has _____ parts

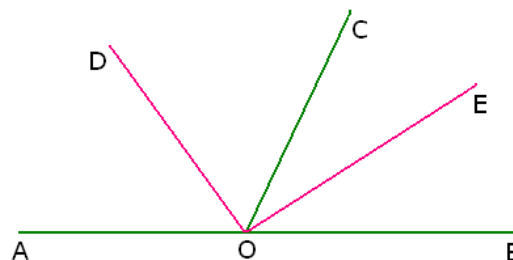
Q5. What are collinear points?

Q6. A reflex angle is _____

Section B 2 marks each

Q7. If two lines intersect each other, then the vertically opposite angles are equal. Prove

Q8. In figure $\angle DOE = 90^\circ$ and OD and OE are bisectors of angles AOC and BOC respectively. Prove points A , O and B are collinear.

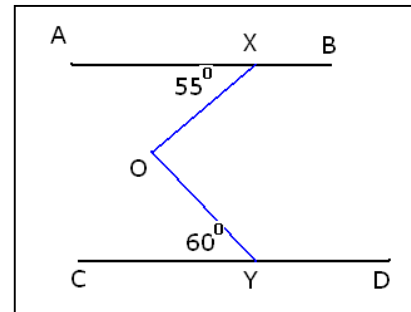


Section C 3 marks each

Q9. It is given that $\angle XYZ = 64^\circ$ and XY is produced to point P . Draw a figure from the given information. If ray YQ bisects $\angle ZYP$, find $\angle XYQ$ and reflex $\angle QYP$.

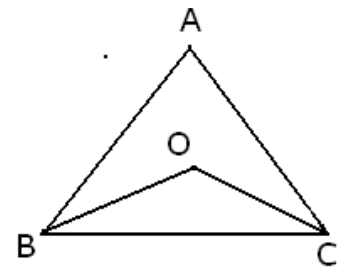
Q10. prove sum of three angles of a triangle is 180°

Q11. In figure find $\angle XOY$



Section D 6 marks each

Q12. In figure BO and CO are bisectors of angles ABC and ACB of $\triangle ABC$ respectively. Prove $\angle BOC = 90^\circ + \angle A/2$



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