

M.M. 25

Lines and Angles

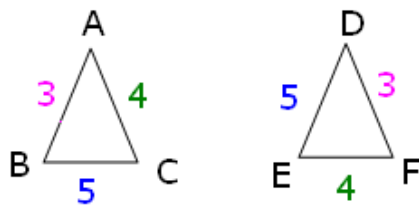
Time 1 hour

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

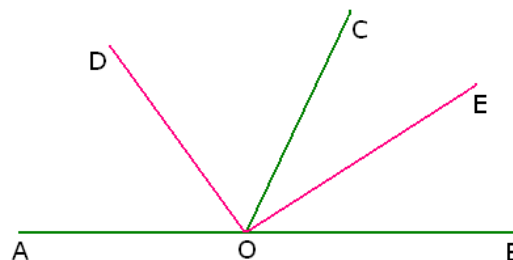
Q5. What are collinear points?

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.

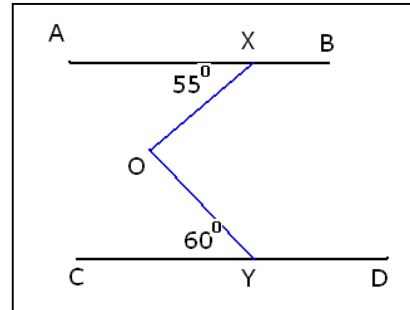


Section C 3 marks each

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  $\angle QYP$ .

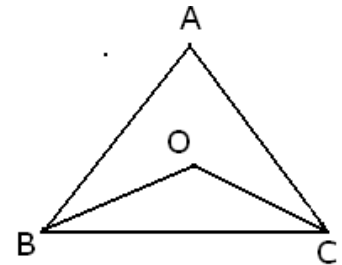
Q10. prove sum of three angles of a triangle is  $180^\circ$

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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