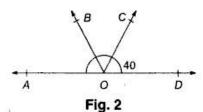
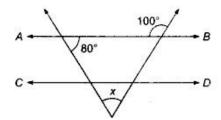
Time: 40 Mins M.M. 20

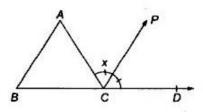
- 1. If the difference between two complementary angles is 20° then the angles are
  - (a) 40,50°
- (b) 70°, 50°
- (c) 35°, 55°
- (d) 45, 25
- 2. AD is a straight line, OB bisects  $\angle AOC$ , if  $\angle DOC = 40^{\circ}$  then  $\angle AOB =$ 
  - (a) 60°
- (b) 70°
- (c) 140°
- (d) 80°



- 3.  $AB \parallel CD$ , then value of x =
  - (a) 80°
- (b) 40°
- (c) 60°
- (d) 20°



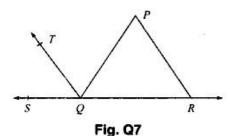
- 4. CP is bisector of exterior angle ACD of  $\triangle ABC$ ,  $AB \parallel CP$ . If  $\triangle ACD = 120^{\circ} ABC =$ 
  - (a) 60°
- (b) 70°
- (c) 50°
- (d) 40°



- Fig. 4
- 5. If sum of two angles of a triangle is equal to the third angle then it is a
  - (a) equilateral triangle
- (b) Isosceles triangle
- (c) right angled triangle
- (c) obtuse angled triangle.

## 9<sup>th</sup> Comprehensive test paper Chapter Lines and Angles

- 6. In  $\triangle PQR$ ,  $\angle P = 90^{\circ}$ ,  $PS \perp QR$ . Prove  $\angle QPS = \angle PRQ$ .
- 7. In figure Q7, prove QT || RP, if QT bisects  $\angle PQS$  and PQ = PR.



- 8. Side BC of  $\triangle ABC$  is produced to a point D, bisector of  $\angle A$  meets BC at L. Prove  $\angle ABC + \angle ACD = 2 \angle ALC$ .
- 9. In figure Q9, sides AB and AC are produced to points E and F. BO and CO are bisectors of  $\angle CBE$  and  $\angle BCF$  respectively. Prove that  $\angle BOC = 90 \frac{1}{2} \angle BAC$ .
- 10. In the given figure Q10, the side QR is produced to a point S. If the bisectors of  $\angle PQR$  and  $\angle PRS$  meet at point T, prove  $\angle QTR = \frac{1}{2} \angle QPR$ .

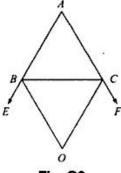


Fig. Q9

In the given figure, l || m, AO and BO are bisector of  $\angle PAB$  and  $\angle QBA$  respectively. Prove that  $\angle AOB$  is a right angle.

