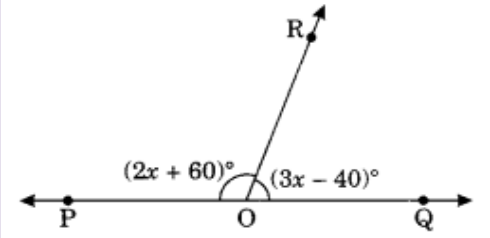
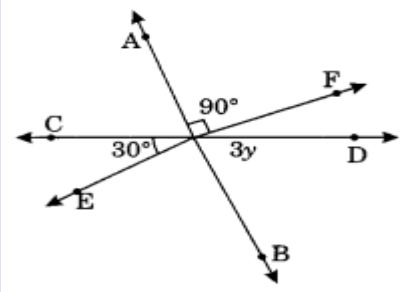
HOTS QUESTIONS

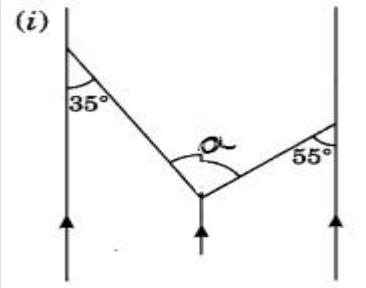
1. Find the angle which is 1/5 th of its complement.
2. Find the angle which is 2/3 rd of its supplement.
3. Find the value of angle ROQ.



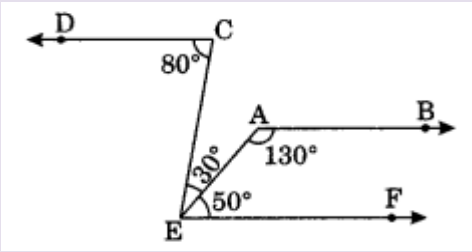
4. Find the value of ‘y’.



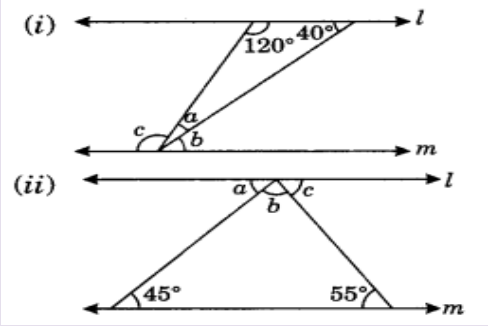
5. Find the supplement of 2/5 th of right angle.
6. In the given figure, find angle ‘a’.



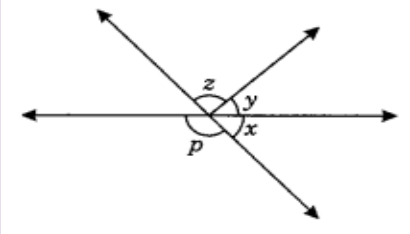
7. In the given figure, prove that AB II CD.



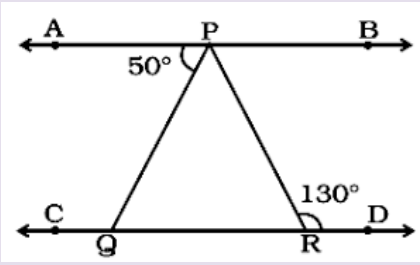
8. In the given figure ‘l II m’. Find the values of a, b and c.



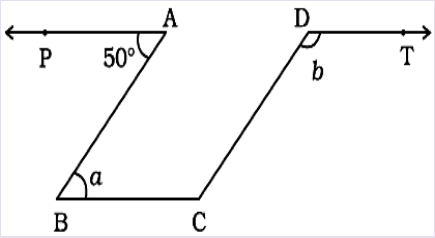
9. In the adjoining figure if x: y: z = 2:3:4, then find the value of ‘p’.



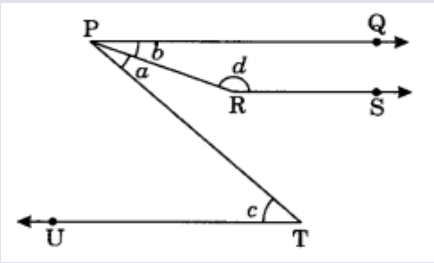
10. In figure if AB II CD, angle APQ=50° and angle PRD=130°, then find angle QPR.



11. In the given figure if PA II BC II DT and AB II DC, then find the values of a and b respectively.



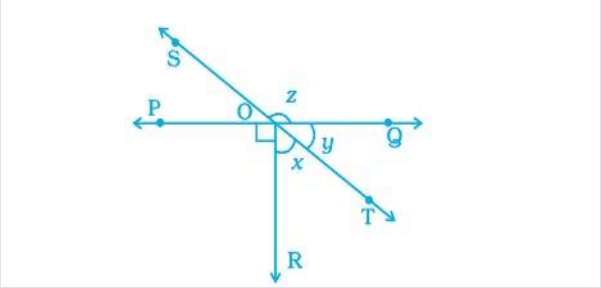
12. In given figure, PQ, RS and UT are parallel lines.



(i) If c = 57° and a = c/3, find the value of d.

(ii) If c = 75° and a = (2/5) c, find b.

13. In figure line PQ and ST intersect at O. If x:y=3:2, then find the value of z.



CLASS: VII

SUBJECT: MATHEMATICS

CHAPTER: 5 (LINES AND ANGLES)

BY Priyanka Paul