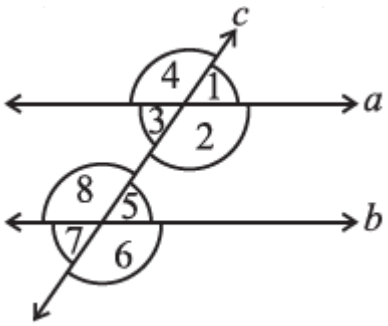
Name: **Date:**

Areas of Improvement:

Maximum Marks	**17.5**
Marks Obtained	
%	

Section A

Q1. In the adjoining figure, identify [0.5 x 4 = 2]



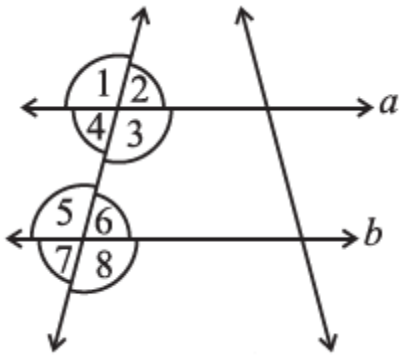
(i) The pairs of corresponding angles.

(ii) The pairs of alternate interior angles.

(iii) The pairs of interior angles on the same side of the transversal.

(iv) The vertically opposite angles.

Q2. State the property that is used in each of the following statements. [0.5 x 3 = 1.5]



(i) If a ∥ b, then ∠1 = ∠5

(ii) If ∠4 = ∠6, then a ∥ b.

(iii) If ∠4 + ∠5 = 180°, then a ∥ b.

Section B [1 x 4 = 4]

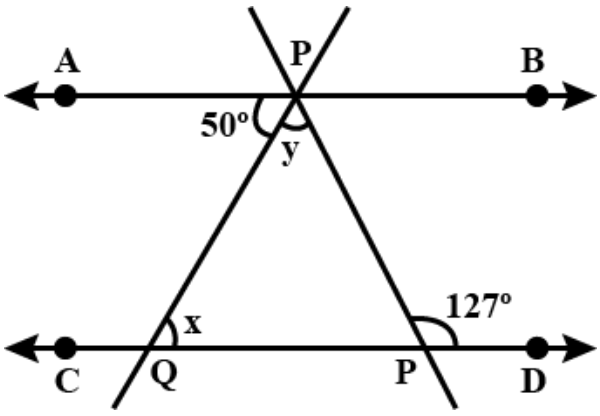
Q3. Angles which are both supplementary and vertically opposite are

a. 95°, 85° b. 90°, 90° c. 100°, 80° d. 45°, 45°

Q4. The angle that makes a linear pair with an angle of 61° is

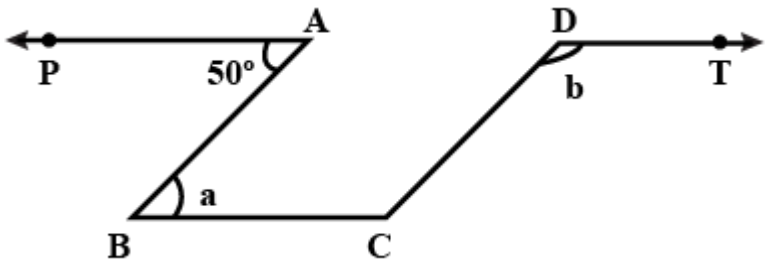
(a) 29° (b) 61° (c) 122° (d) 119°

Q5. In Fig. 5.11, if AB || CD, ∠ APQ = 50° and ∠PRD = 130°, then ∠ QPR is



(a) 130° (b) 50° (c) 80° (d) 30°

Q6. In Fig. 5.16, PA || BC || DT and AB || DC. Then, the values of a and b are respectively.

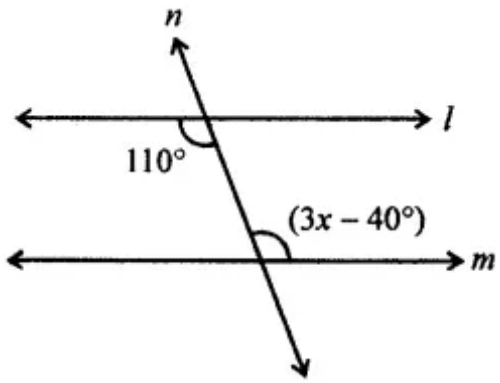


(a) 60°, 120° (b) 50°,130° (c) 70°,110° (d) 80°,100°

Section C (any two) [2 x 4 = 8]

Q7. In the given figure, if l || m then the value of x is

(a) x = 50 (b) x = 60 (c) x = 70 (d) x = 45



Q8. In Fig.63, line l ‖ m and a transversal n cut them P and Q respectively. If ∠1 = 75°, find all other angles.

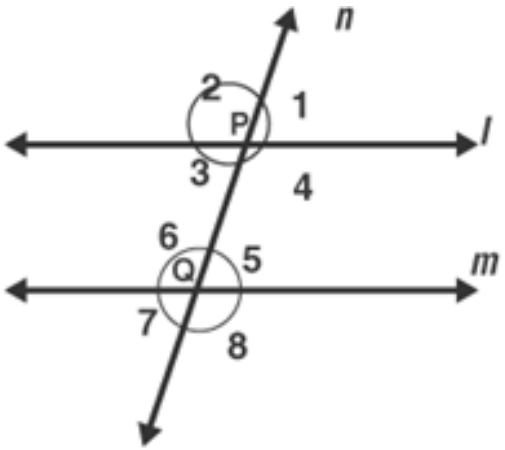


Fig. 63

Q9. In Fig. 80, line AC ‖ line DE and ∠ABD = 32°, Find out the angles x and y if ∠E = 122°.

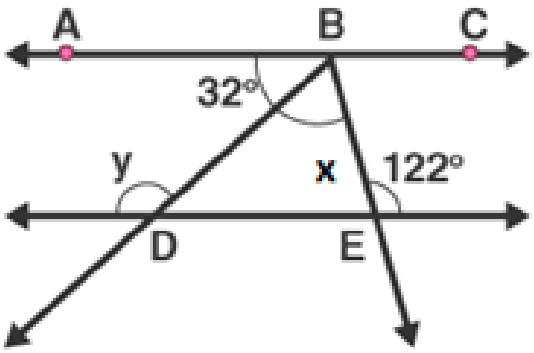
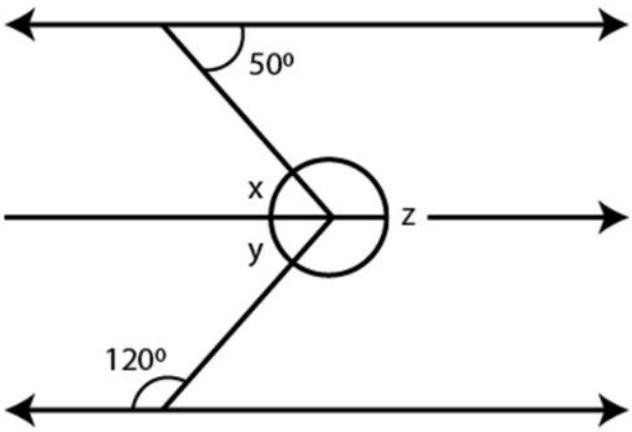


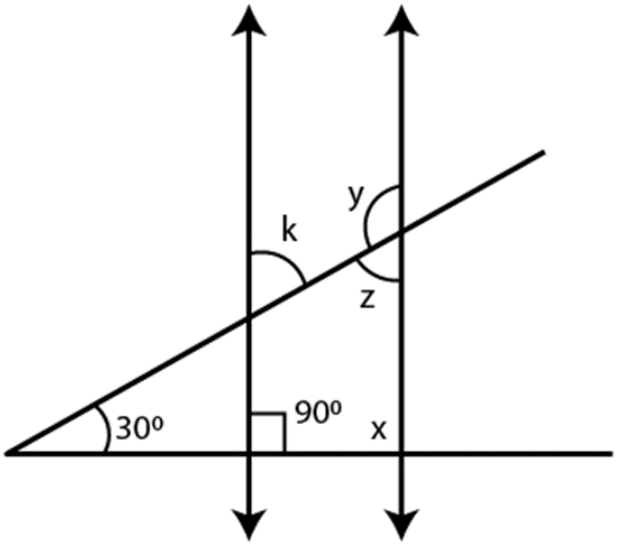
Fig. 80

Section D [any two] [3 x 2 = 6]

Q10. In the given figure, the directed lines are parallel to each other. Find the unknown angles.

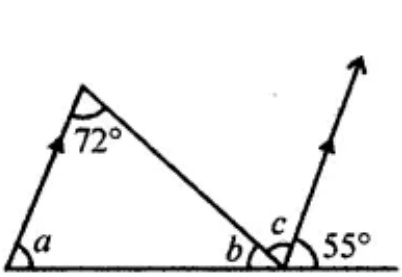


Q11. In the given figure, the directed lines are parallel to each other. Find the unknown angles.

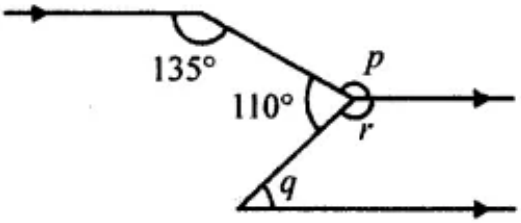


Higher Order Thinking Skills (HOTS)

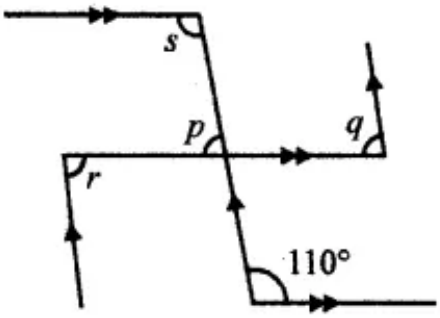
Q12. Calculate the measure of each lettered angle in the following figures (parallel line segments / rays are denoted by thick matching arrows):



(*i*)



(*ii*)



(*iii*)