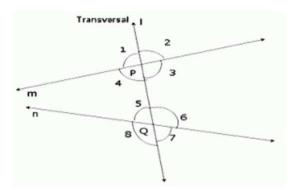


## Choose the Correct options:

1. In the given figure, line I is the transversal intersecting the two lines m and n at P and Q. Which of the following is the pair of alternate interior angles?

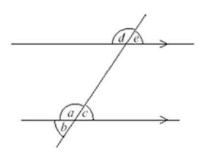


- a)  $\angle 3$  and  $\angle 5$
- b)  $\angle 3$  and  $\angle 7$
- c)  $\angle 1$  and  $\angle 7$
- d)  $\angle 1$  and  $\angle 5$

2. Line a makes an angle of 30 degrees with the line b, also line c makes an angle of 30 degrees with line b. Then, \_\_\_\_\_ .

- a) line a || line c
- b) line a  $\perp$  line b
- c) line a || line b
- d) line a  $\perp$  line c

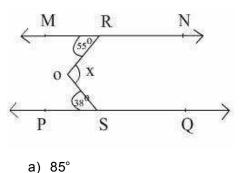
3. In the figure below, the angle  $a = 150^\circ$ . The other angle in the figure which is also  $150^\circ$  is:



- a) e
- b) b
- c) d
- d) c

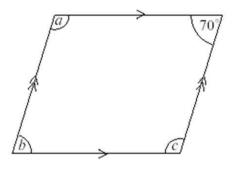
- 4. If a transversal intersects two parallel lines, then each pair of corresponding angles is ......
  - a) Parallel
  - b) Perpendicular
  - c) Equal
  - d) Different

5. In the figure, PQ || MN, the value of x will be



- a) 65
- **b) 93°** c) 90°
- d) 100
- d) 100°

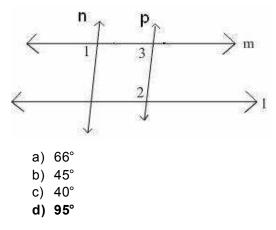
6. The figure below shows a parallelogram. What is the measure of  $\angle b$ ?



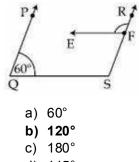
a) 90°

- b) 70°
- c) 110°
- d) 100°

7. In the figure if I || m, n || p and  $\angle 1 = 85^\circ$ , then  $\angle 2$  is equal to

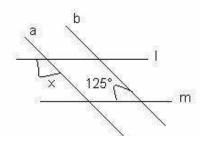


8. In the given figure, PQ||RS and EF||QS. If  $\angle$  PQS = 60 °, then the measure of  $\angle$  RFE is:

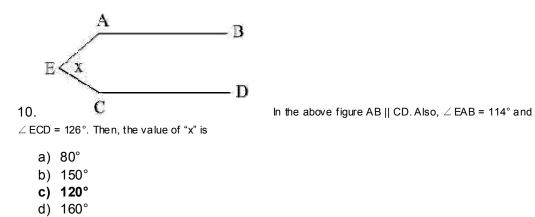


d) 115°

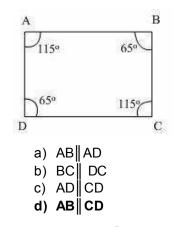
9. In the following figure, the value of x is



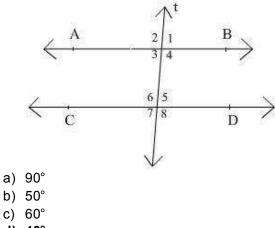
- a) 125°
- b) 55°
- c) 60°
- d) 45°



11. Observe the given figure and choose the correct statement

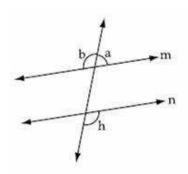


12. h the figure, AB  $\parallel$  CD. If  $\angle 2 = (2x + 30)^\circ$ ,  $\angle 4 = (x + 2y)^\circ$  and  $\angle 6 = (3y+10)^\circ$  the measure of  $\angle 5$  is



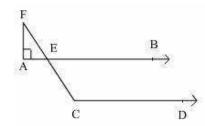
d) 40°

13. In fig., if m||n and  $\angle a : \angle b = 2 : 3$ , the measure of  $\angle h$  is



- a) 72°
- b) 120°
- c) 108°
- d) 150°

14.In the figure, AB || CD and  $\angle$  F = 30° the value of  $\angle$  ECD is



- a) 110°
- b) 109°
- c) 120°
- d) 105°

15. If two parallellines are intersected by a transversal then, pair of alternate interior angles are:

- a) Equal
- b) Sum of the two angles is 360°
- c) Complementary
- d) Supplementary