ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

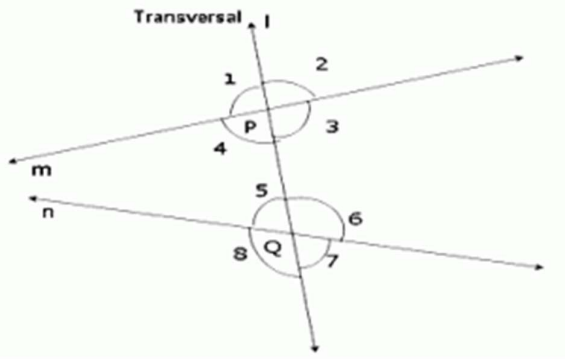
Sub: Algebra and Geometry **Class: 7** **Date: 16.04.20**

Duration: 40 min **Worksheet 3** **Full Marks: 15**

PARALLEL LINES

Choose the Correct options:

1. In the given figure, line l 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?

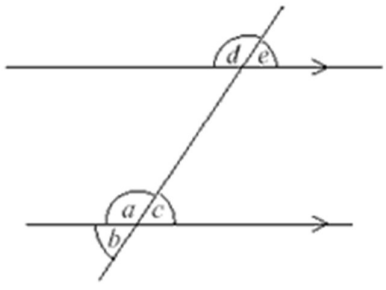


a) ∠3 and ∠5
b) ∠3 and ∠7
c) ∠1 and ∠7
d) ∠1 and ∠5

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 ⊥ line b
c) line a || line b
d) line a ⊥ line c

3. In the figure below, the angle a = 150°. The other angle in the figure which is also 150° is:

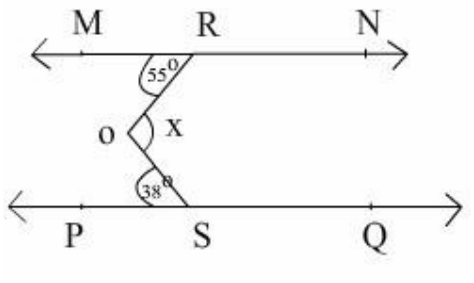


a) e
b) b
c) d
d) c

4. If a transversal intersects two parallel lines, then each pair of corresponding angles is ……

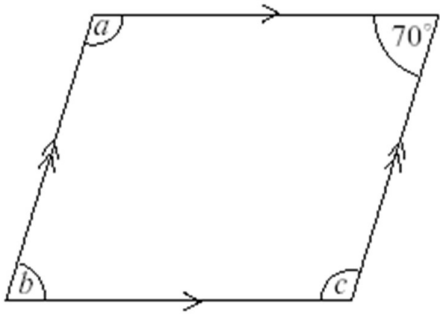
a) Parallel
b) Perpendicular
c) Equal
d) Different

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



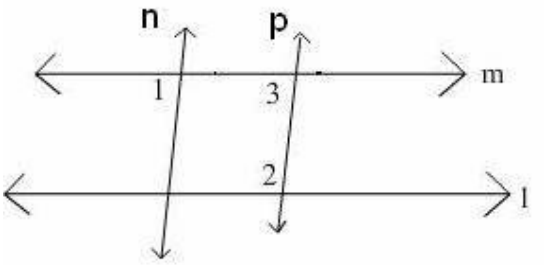
a) 85°
b) 93°
c) 90°
d) 100°

6. The figure below shows a parallelogram. What is the measure of ∠b?



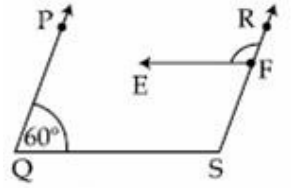
a) 90°
b) 70°
c) 110°
d) 100°

7. In the figure if l ‖ m, n ‖ p and ∠1 = 85°, then ∠2 is equal to



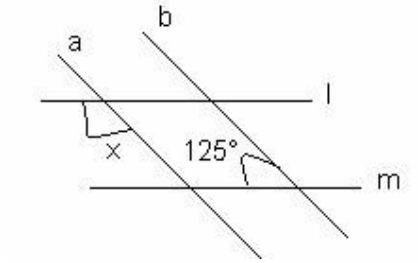
a) 66°
b) 45°
c) 40°
d) 95°

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

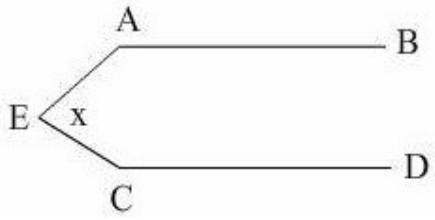


a) 60°
b) 120°
c) 180°
d) 115°

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



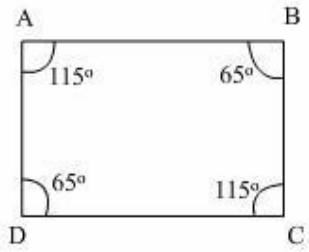
a) 125°
b) 55°
c) 60°
d) 45°



10. In the above figure AB || CD. Also, ∠EAB = 84° and ∠ECD = 126°. Then, the value of "x" is

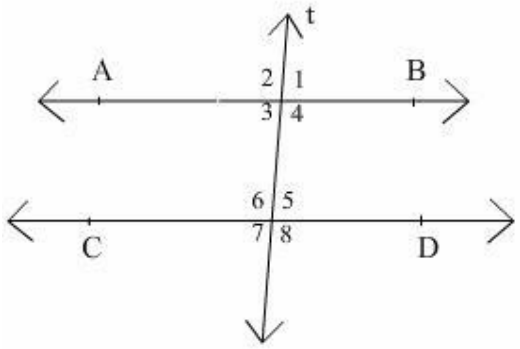
a) 80°
b) 150°
c) 120°
d) 160°

11. Observe the given figure and choose the correct statement



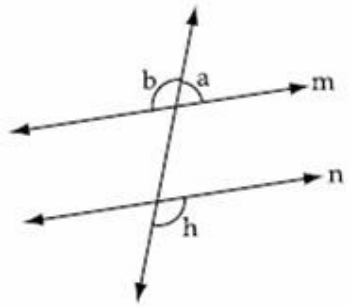
a) AB ‖ AD
b) BC‖ DC
c) AD ‖ CD
d) AB ‖ CD

12. In the figure, AB ‖ CD. If ∠2 = (2x + 30)°, ∠4 = (x + 2y)° and ∠6 = (3y+10)° the measure of ∠5 is



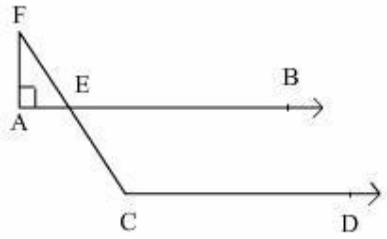
a) 90°
b) 50°
c) 60°
d) 40°

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



a) 72°
b) 120°
c) 108°
d) 150°

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



a) 110°
b) 109°
c) 120°
d) 105°

15. If two parallel lines 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