



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra and Geometry

Class: 7

Date: 05.03.21

Duration: 40 min

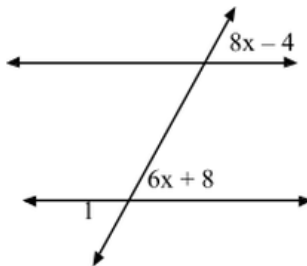
Worksheet 15

Full Marks: 15

## PARALLEL LINES

Choose the correct option:

1. Find the measure of angle 1.

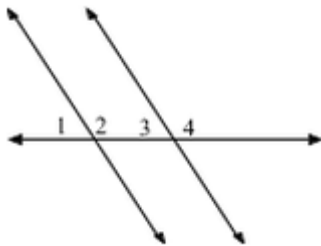


- a.  $180 - 8x - 4$
- b.  $360 - 8x - 4$
- c.  $8x - 4$
- d. Impossible to tell

2. Angle 1 =  $3x - 4$

Angle 3 =  $5x - 38$

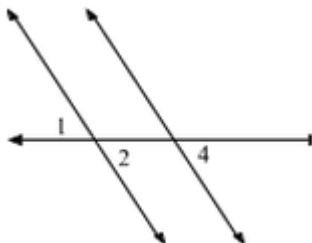
Find the measure of Angle 4



- a. Angle 4 = Angle 1
- b. Angle 4 = Angle 3 - Angle 1
- c. Angle 4 =  $180 - \text{Angle 3}$
- d. Angle 4 =  $360 - \text{Angle 3}$

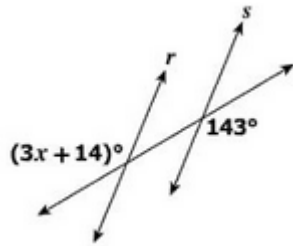
3. Angle 1 =  $27^\circ$

Find the measure of angle 4



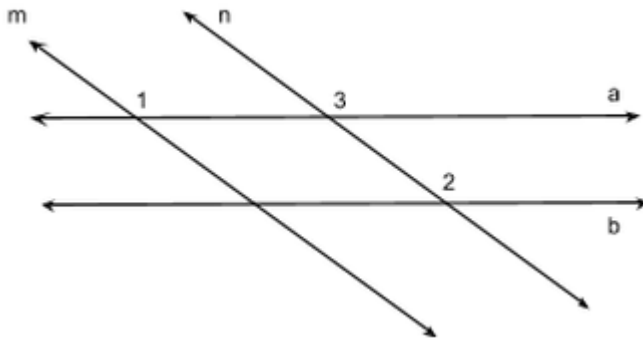
- a.  $27^\circ$
- b.  $153^\circ$
- c.  $63^\circ$
- d.  $90^\circ$

4. Lines r and s are cut by a transversal. What value of x proves  $r \parallel s$ ?



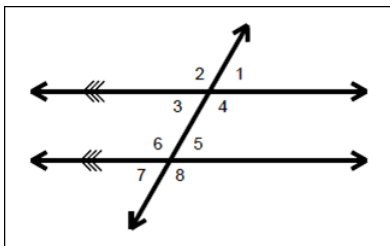
- a. 43
- b. 37
- c. 143
- d. 37

5. What is the name of the angle relationship between angle 1 and angle 3?



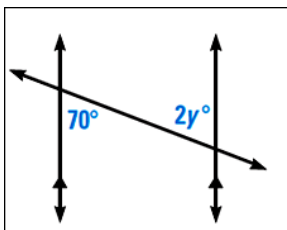
- a. Consecutive interior angles
- b. Vertical Angles
- c. Alternate exterior Angles
- d. Corresponding Angles

6. Name the corresponding angle to angle 4.



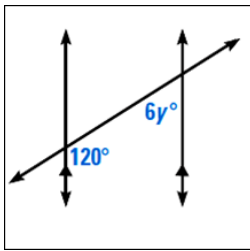
- a. angle 8
- b. angle 6
- c. angle 2
- d. angle 5

7. Solve for y.



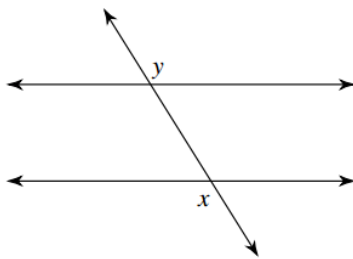
- a.  $y = 55$
- b.  $y = 35$
- c.  $y = 70$
- d.  $y = 70$

8. Solve for  $y$ .



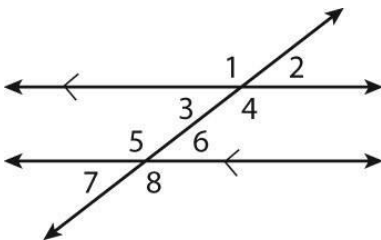
- a.  $y = 20$
- b.  $y = 120$
- c.  $y = 60$
- d.  $y = 10$

9. What is the relationship of the angles?



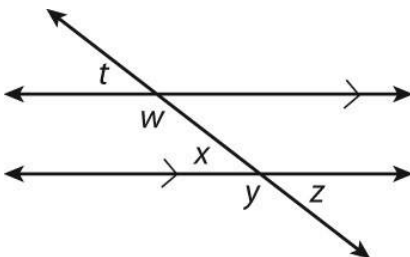
- a. Corresponding angles
- b. Consecutive Interior
- c. Alternate Interior
- d. Alternate Exterior

10. Which pair of angles are alternate exterior angles?



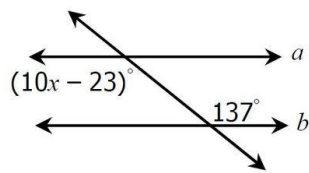
- a. Angle 7 and Angle 4
- b. Angle 2 and Angle 6
- c. Angle 8 and Angle 1
- d. Angle 2 and Angle 8

11. Which of the following pairs of angles are congruent?



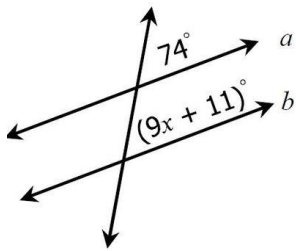
- a. Angle  $w$  and Angle  $y$
- b. Angle  $y$  and Angle  $x$
- c. Angle  $w$  and Angle  $z$
- d. Angle  $t$  and Angle  $y$

12. WHAT IS THE VALUE OF X?



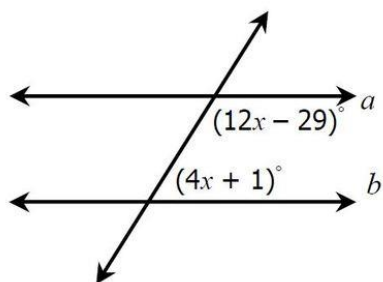
- a. 16
- b. 11.4
- c. 0
- d. -16

13. WHAT IS THE VALUE OF X?



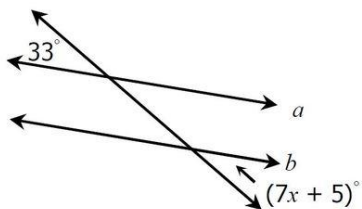
- a. -7
- b. 9.4
- c. 7
- d. -9.4

14. WHICH IS THE CORRECT EQUATION TO SOLVE FOR X?



- a.  $16X + 180 = 90$
- b.  $12X - 19 = 4X + 1$
- c.  $12X - 19 + 4X + 1 = 90$
- d.  $12X - 19 + 4X + 1 = 180$

15. WHAT IS THE CORRECT EQUATION TO USE TO SOLVE FOR X?



- a.  $33 = 7X + 5$
- b.  $-7X = 33$
- c.  $33 + 7X + 5 = 180$
- d.  $33 + 7X + 5 = 90$