



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra and Geometry

Class: 7

Date: 13.02.21

Duration: 40 min

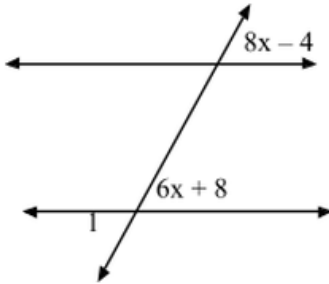
Worksheet Solution 09

Full Marks: 15

PARALLEL LINES

Choose the correct option:

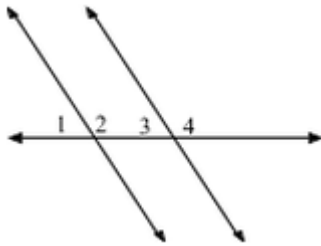
1. Find the measure of angle 1.



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

2. Angle 1 = $3x - 4$

Angle 3 = $5x - 38$

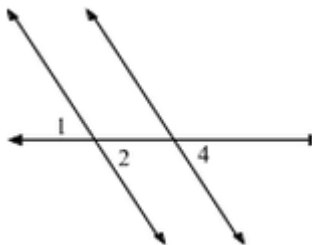


Find the measure of Angle 4

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

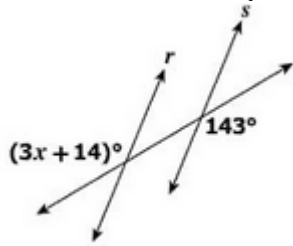
3. Angle 1 = 27°

Find the measure of angle 4

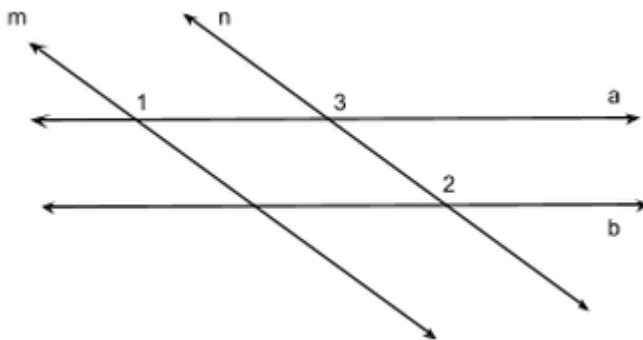


- a. **27°**
- b. 153°
- c. 63°
- d. 90°

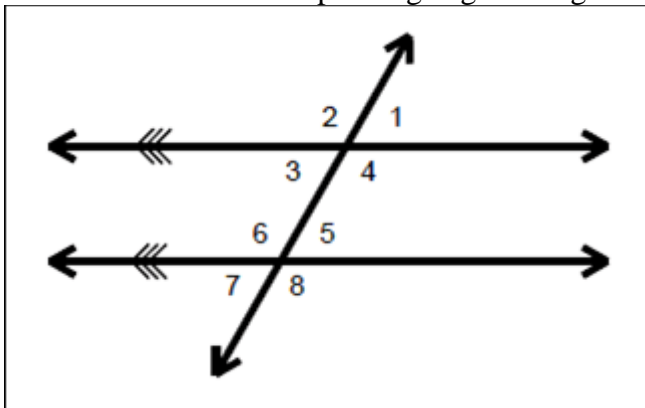
4. Lines r and s are cut by a transversal. What value of x proves $r \parallel s$?



- a. **43**
 b. 37
 c. 143
 d. 37
5. What is the name of the angle relationship between angle 1 and angle 3?

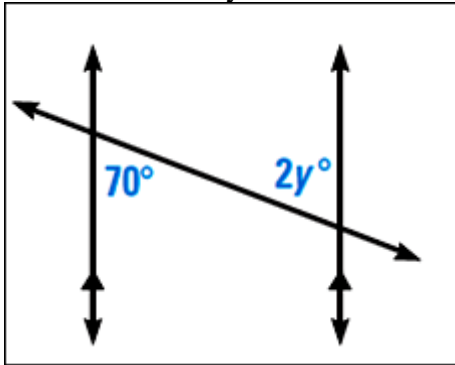


- a. Consecutive interior angles
 b. Vertical Angles
 c. Alternate exterior Angles
 d. **Corresponding Angles**
6. Name the corresponding angle to angle 4.



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

7. Solve for y.



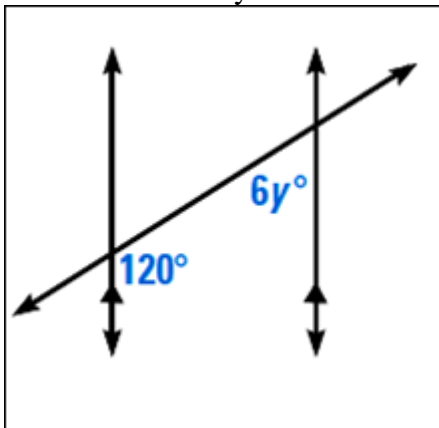
a. $y = 55$

b. $y = 35$

c. $y = 70$

d. $y = 70$

8. Solve for y.



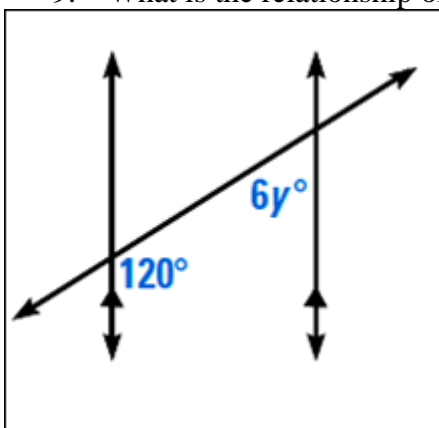
a. $y = 20$

b. $y = 120$

c. $y = 60$

d. $y = 10$

9. What is the relationship of the angles?



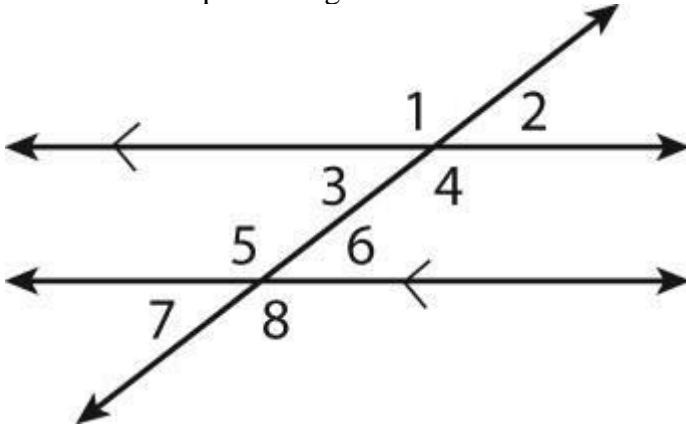
a. Corresponding angles

b. Co- Interior

c. Alternate Interior

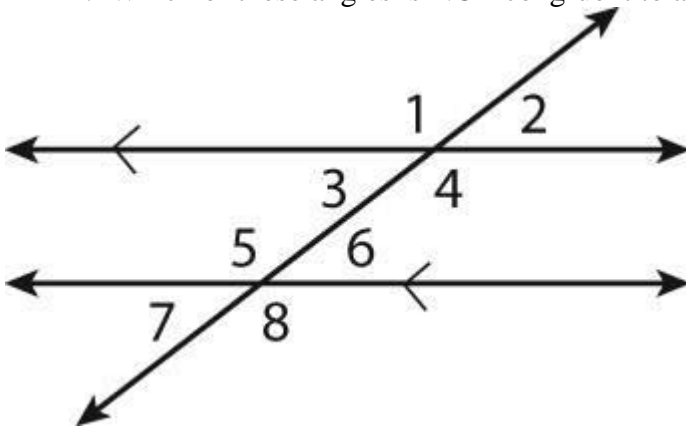
d. Alternate Exterior

10. Which pair of angles are alternate exterior angles?



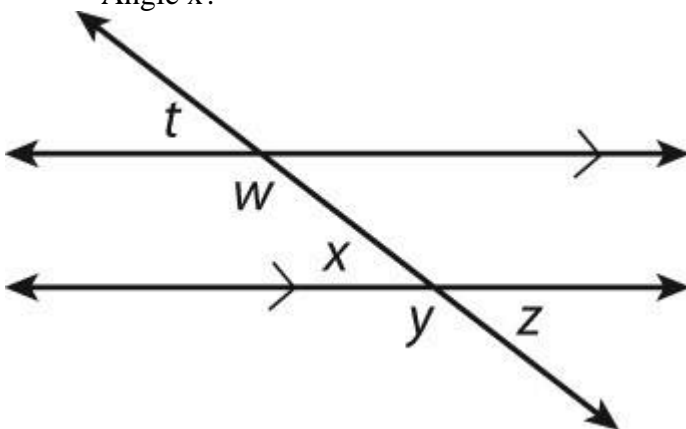
- a. Angle 7 and Angle 4
- b. Angle 2 and Angle 6
- c. Angle 8 and Angle 1**
- d. Angle 2 and Angle 8

11. Which of these angles is NOT congruent to angle 5?



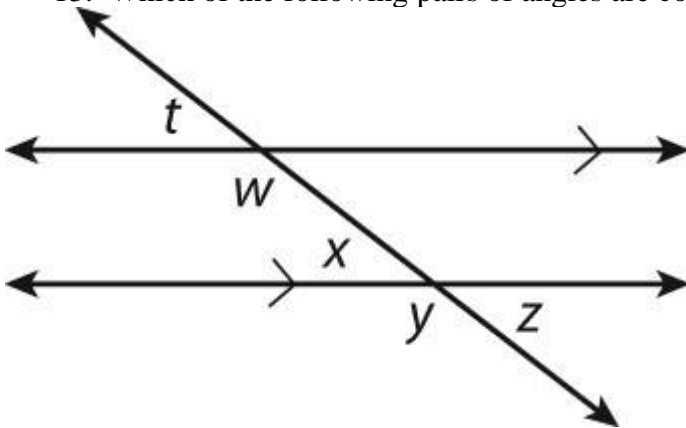
- a. Angle 6**
- b. Angle 8
- c. Angle 1
- d. Angle 4

12. Which of the following terms best describes the relationship between Angle w and Angle x?



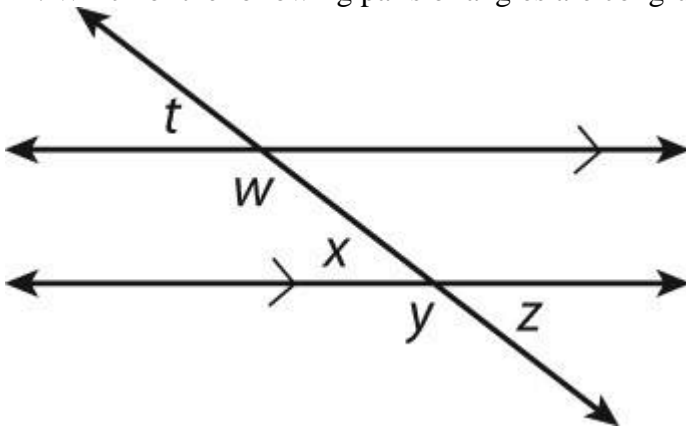
- a. Corresponding angles
- b. Co- interior angles**
- c. Alternate interior angles
- d. Vertically opposite angles

13. Which of the following pairs of angles are corresponding angles?



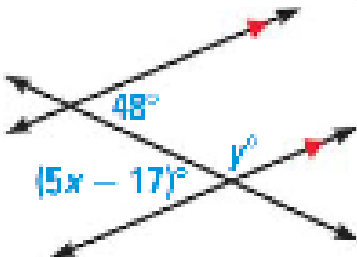
- a. Angle z and Angle x
- b. Angle w and Angle t
- c. Angle t and Angle x**
- d. Angle w and Angle x

14. 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

15. What is the value of x ? (hint: plug in each value for x and solve)



- a. 29.8**
- b. 119
- c. 61.3
- d. 51.5