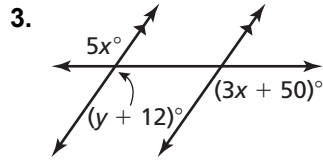
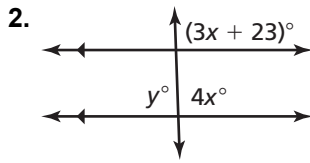
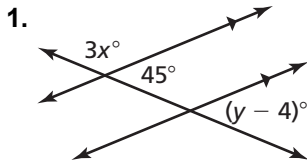


Chapter 10 Test B

Find the values of x and y . State which theorem(s) you used.



Answers

1. _____

2. _____

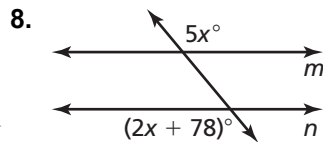
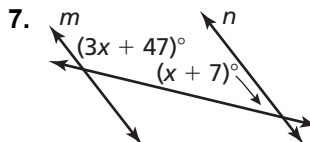
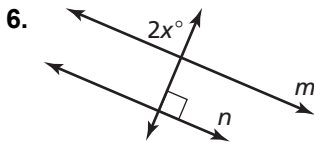
4. When two parallel lines are cut by a transversal, name the angles that are congruent.

3. _____

5. When two parallel lines are cut by a transversal, name the angles that are supplementary.

4. _____

Find the value of x that makes line $m \parallel n$.



5. _____

Find the distance from point A to the given line.

9. $A(0, 4)$, $y = -\frac{3}{4}x + 1$

10. $A(-3, -1)$, $y = 5x - 6$

6. _____

11. $A(-2, 2)$, line with a slope of $\frac{1}{2}$ that passes through $(-3, 0)$

7. _____

12. $A(7, 10)$, line for which $f(-1) = 4$ and $f(2) = -8$

8. _____

Find the distance between the parallel lines.

13. $y = \frac{2}{3}x$, $y = \frac{2}{3}x - 9$

14. $y = 3x - 5$, $y = 3x - 1$

9. _____

10. _____

15. $y = -4x + 2$, parallel line that passes through $(1, -5)$

11. _____

12. _____

16. $y = \frac{1}{5}x + 6$, parallel line that passes through $(5, 3)$

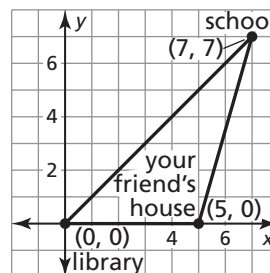
13. _____

Use the coordinate plane diagram.

17. Find the equation of the line from your friend's house to her school.

18. Find the equation of the line from the school to the library.

19. What is the distance from your friend's house to the school?



14. _____

15. _____

16. _____

17. _____

18. _____

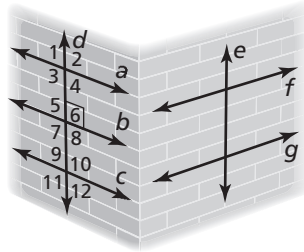
19. _____

Chapter 10

Test B (continued)

Identify an example on the box of the description. Explain your reasoning.

- 20. a pair of skew lines
- 21. a pair of perpendicular lines
- 22. a pair of parallel lines
- 23. a pair of corresponding angles



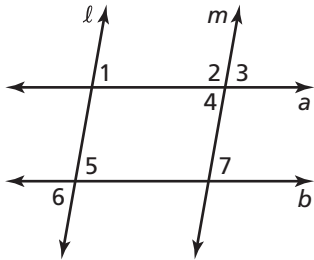
Answers

- 20. _____
- 21. _____
- 22. _____
- 23. _____
- 24. See left.
- 25. See left.

Write a two-column proof.

24. Given $\ell \parallel m$ and $\angle 1 \cong \angle 7$

Prove $a \parallel b$



25. Given $a \parallel b$ and $\angle 5$ is supplementary to $\angle 2$.

Prove $\ell \parallel m$

