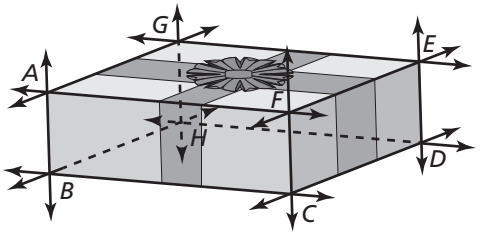
Name_____ Date _____

Chapter 10 Test A

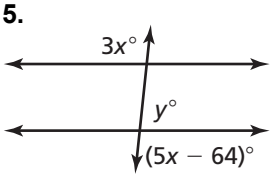
Identify an example on the box of the description.

1. a pair of skew lines
2. a pair of perpendicular lines
3. a pair of parallel lines
4. a pair of intersecting planes and where they intersect

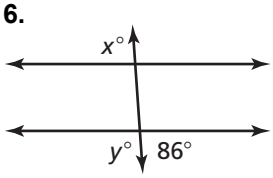


Find the values of *x* and *y*. State which theorem(s) you used.

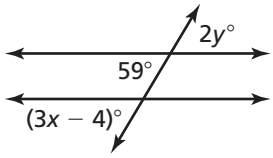
5.



6.

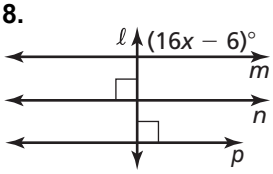


7.

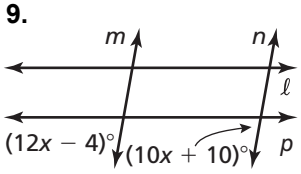


Find the value of *x* that makes *m* ∥ *n*.

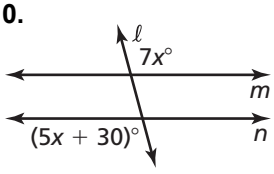
8.



9.

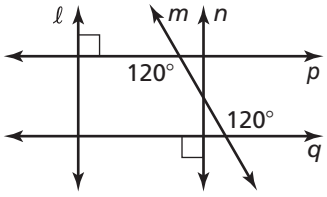


10.

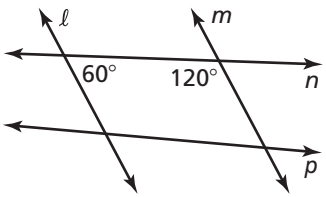


Determine which lines, if any, must be parallel. Explain your reasoning.

11.



12.



Complete the sentence.

13. The slopes of perpendicular lines are _____.
14. Parallel lines have the _____ slope.
15. The shortest distance from any point to a line is a _____.

Answers

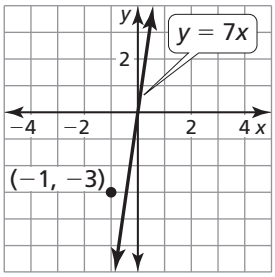
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

Name _____ Date _____

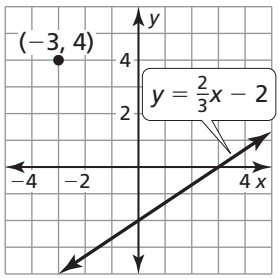
Chapter 10 Test A (continued)

Find the distance from the point to the line.

16.



17.

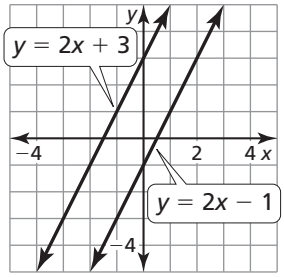


18. $3x - 4y = 16; (8, -5)$

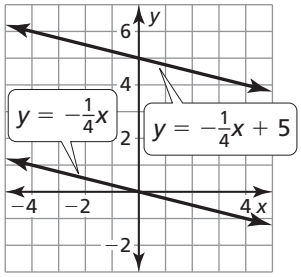
19. $4x + y = 7; (2, 4)$

Find the distance between the parallel lines.

20.



21.



22. $y = \frac{1}{2}x - 4$, parallel line that passes through $(0, 0)$

23. $y = -3x - 1$, parallel line that passes through $(6, -2)$

Answers

16. _____

17. _____

18. _____

19. _____

20. _____

21. _____

22. _____

23. _____