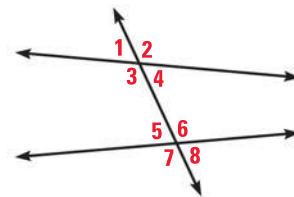


3

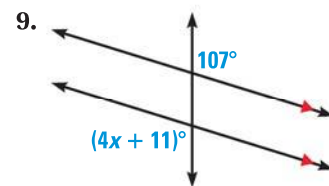
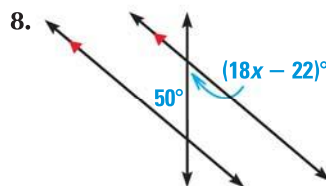
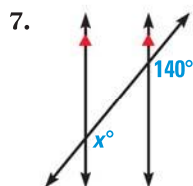
CHAPTER TEST

Classify the pairs of angles as *corresponding*, *alternate interior*, *alternate exterior*, or *consecutive interior*.

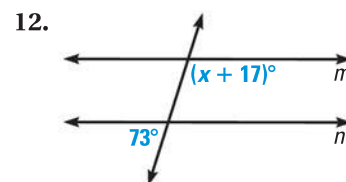
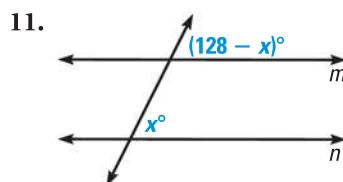
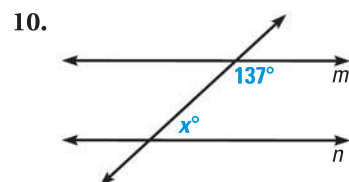
1. $\angle 1$ and $\angle 8$
2. $\angle 2$ and $\angle 6$
3. $\angle 3$ and $\angle 5$
4. $\angle 4$ and $\angle 5$
5. $\angle 3$ and $\angle 7$
6. $\angle 3$ and $\angle 6$



Find the value of x .



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



Find the slope of the line that passes through the points.

13. $(3, -1), (3, 4)$
14. $(2, 7), (-1, -3)$
15. $(0, 5), (-6, 12)$

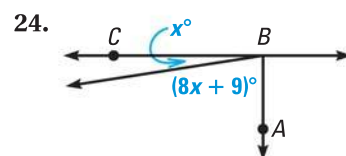
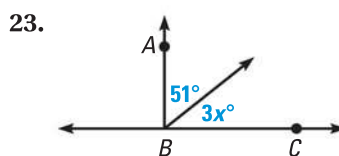
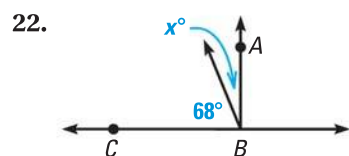
Write an equation of the line that passes through the given point P and has the given slope m .

16. $P(-2, 4), m = 3$
17. $P(7, 12), m = -0.2$
18. $P(3, 5), m = -8$

Write an equation of the line that passes through point P and is perpendicular to the line with the given equation.

19. $P(1, 3), y = 2x - 1$
20. $P(0, 2), y = -x + 3$
21. $P(2, -3), x - y = 4$

In Exercises 22–24, $\overline{AB} \perp \overline{BC}$. Find the value of x .



25. **RENTAL COSTS** The graph at the right models the cost of renting a moving van. Write an equation of the line. Then find the cost of renting the van for a 100 mile trip.

