Name _____ Date _____

Practice 15

For use with Section 2-7

Solve each equation.

1. $a + 25 = 13$

2. $b + 12 = -8$

3. $r - 15 = -2$

4. $7 + d = 22$

5. $-3 + q = 5$

6. $u + 17 = 17$

7. $5j = 60$

8. $7p = 63$

9. $10y = 180$

10. $2n - 5 = 17$

11. $9 + 2m = 35$

12. $3x - 7 = 41$

13. $6 = 4k - 30$

14. $y + y - 9 = 55$

15. $c + 10 + c = 18$

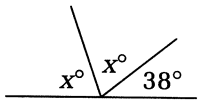
16. $8 + 7w = 29$

17. $3b - b + 5 = 7$

18. $8t - 19 + t = 35$

Write and solve an equation to find each unknown angle measure in each figure. (*Note:* The sum of the measures of the angles of a quadrilateral is 360°.)

19.



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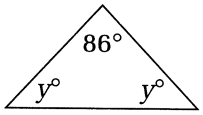
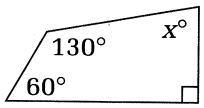


21.



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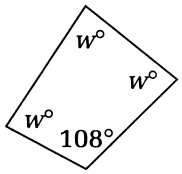

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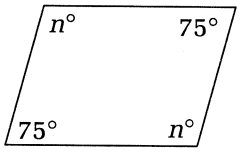

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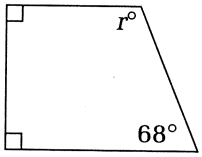

25. The perimeter of a trapezoid is 25 cm. Three sides of the trapezoid have length x cm. The fourth side has length 7 cm. Write and solve an equation to find the value of x.

26. Two sides of a kite are each 34 in. long. Each of the other two sides has length y in. Suppose the perimeter of the kite is 104 in. Write and solve an equation to find y.

Yi-Qian jogs around her block to keep in shape. Her block is a rectangle. She has found that one side of the rectangle is twice as long as the other. Suppose x stands for the length of the shorter side of the rectangle.

27. Write an expression for the length of the longer side, using x.

28. Suppose the perimeter of the rectangle is 1440 ft. Write an equation to find x, and solve the equation.