

Name _____

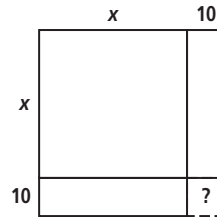
12-2B Lesson Master

Questions on SPUR Objectives

See pages 773–775 for objectives.

SKILLS Objective A

1. a. Find the sum of the areas of the three smallest rectangles at the right.



- b. What is the area of the undrawn rectangle needed to complete the larger square?

- c. Write an algebraic expression to represent the area of the larger square using the sum of the areas of the four smaller rectangles.

- d. Write an algebraic expression using the side length of the largest square to represent the area of the largest square.

In 2–9, a quadratic expression is given.

- a. What number must be added to the expression to complete the square?
 b. After adding that number, the expression is the square of what binomial?

- | | | | |
|-----------------|----------|-------------------------|----------|
| 2. $x^2 - 10x$ | a. _____ | 3. $b^2 + 38b$ | a. _____ |
| | b. _____ | | b. _____ |
| 4. $c^2 + c$ | a. _____ | 5. $t^2 - 26t$ | a. _____ |
| | b. _____ | | b. _____ |
| 6. $x^2 - 18x$ | a. _____ | 7. $k^2 + 1.4k$ | a. _____ |
| | b. _____ | | b. _____ |
| 8. $c^2 + 200c$ | a. _____ | 9. $j^2 - \frac{5}{6}j$ | a. _____ |
| | b. _____ | | b. _____ |

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REPRESENTATIONS Objective I

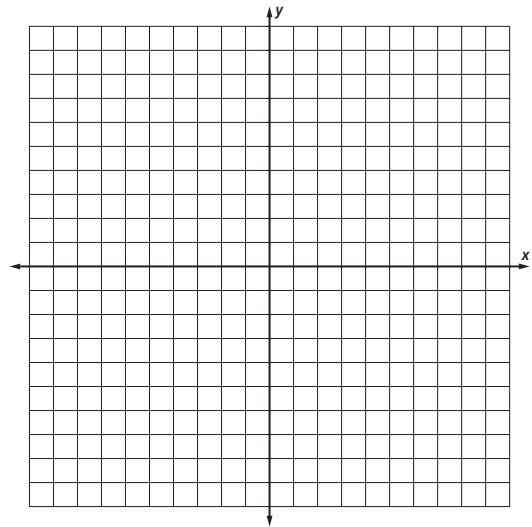
In 10 and 11, a quadratic equation is given.

- Find the vertex of the parabola.
- Sketch the graph of the parabola.

10. $y = x^2 + 2x + 7$

a. _____

b.



11. $y = -x^2 + 8x - 18$

a. _____

b.

