

Name _____

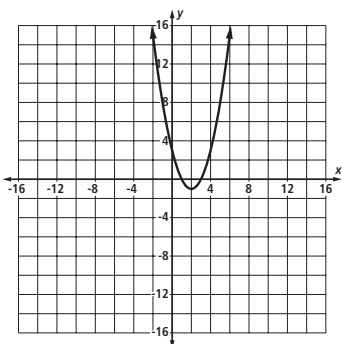
12-3B Lesson Master

Questions on SPUR Objectives
See pages 773–775 for objectives.

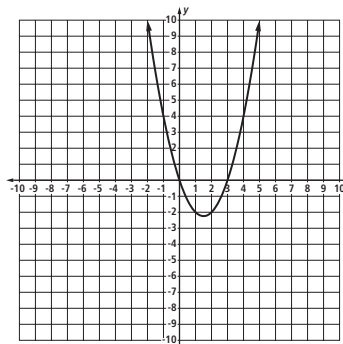
REPRESENTATIONS Objective J

In 1 and 2, determine whether the statement is *true* or *false*.

1. $y = (x + 2)(x + 4)$ is the equation for the parabola graphed below.

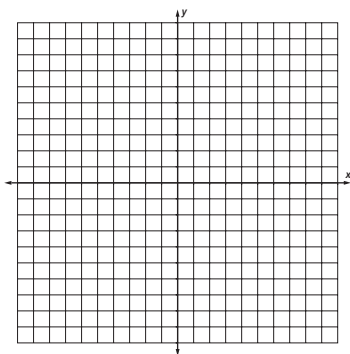


2. $y = x(x - 3)$ is the equation for the parabola graphed below.

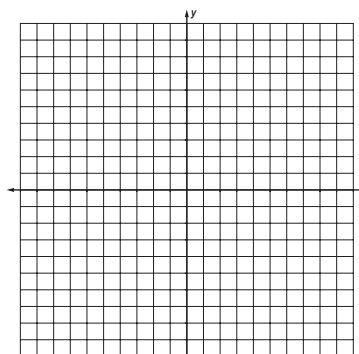


In 3–8, sketch the graph of the quadratic equation without a calculator.

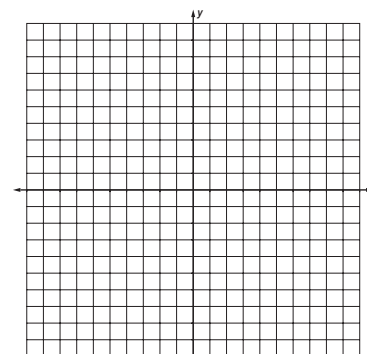
3. $y = (x + 2)(x - 2)$



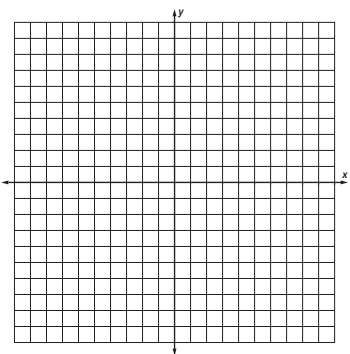
4. $y = -(x - 3)(x + 1)$



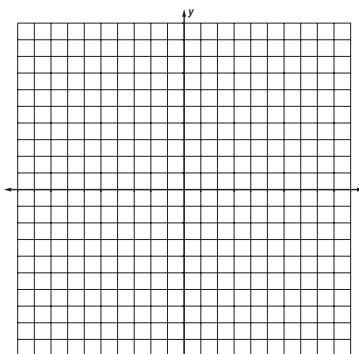
5. $y = (x - 3)^2$



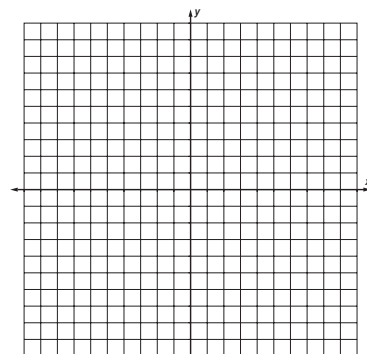
6. $y = -2(x + 2)(x - 1)$



7. $y = -(x - 2)(x + 4)$



8. $y = 2x(x - 4)$



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12-3B

page 2

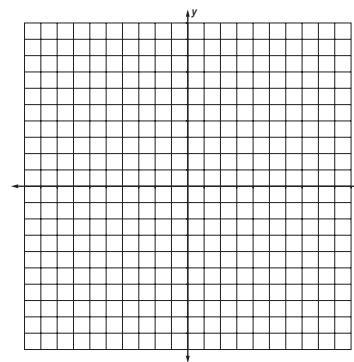
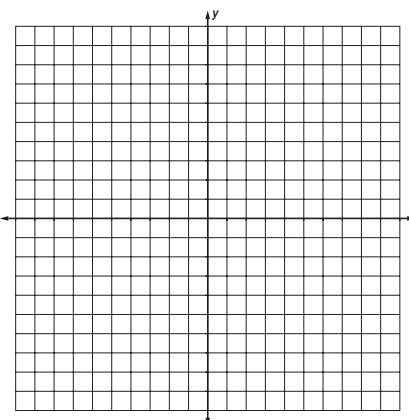
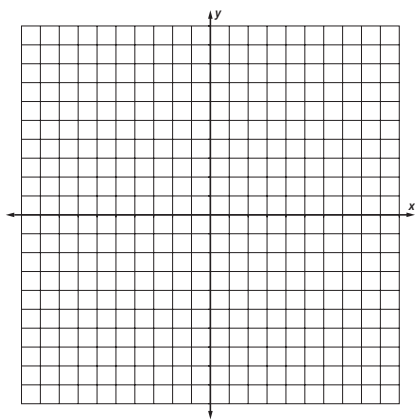
REPRESENTATIONS Objective J

In 9-11, sketch the graph of the quadratic equation without a calculator.

9. $y = \frac{1}{2}(x - 2)(x - 6)$

10. $y = -\frac{3}{2}(x + 3)(x - 1)$

11. $y = \frac{1}{3}(x - 3)(x + 3)$



In 12-17, match each equation to the correct graph without a calculator.

12. $y = (x - 1)(x + 1)$

13. $y = -3(x + 1)(x - 1)$

14. $y = x(x - 1)$

15. $y = -\frac{1}{3}(x - 1)(x + 1)$

16. $y = \frac{1}{2}(x - 1)(x + 1)$

17. $y = 4x(x - 1)$

