Name Date Class	
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## LESSON Practice B

**5-3** Solving Quadratic Equations by Graphing and Factoring

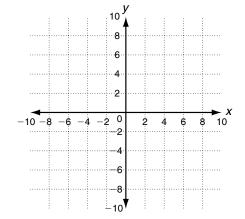
Find the zeros of each function by using a graph and a table.

**1.**  $f(x) = x^2 + 5x + 6$ 

x	-4	-3	-2	-1	0
$f(\mathbf{x})$					

**2.**  $g(x) = -x^2 + 4x + 5$ 

X	-2	0	2	4	6
$f(\mathbf{x})$					



Find the zeros of each function by factoring.

**3.**  $h(x) = -x^2 - 6x - 9$  **4.**  $f(x) = 2x^2 + 9x + 4$  **5.** g

5. 
$$g(x) = x^2 + x - 20$$

Find the roots of each equation by factoring.

**6.**  $12x = 9x^2 + 4$  **7.**  $16x^2 = 9$ 

Write a quadratic function in standard form for each given set of zeros.

8. -2 and 7

**9.** 1 and -8

## Solve.

**10.** The quadratic function that approximates the height of a javelin throw is  $h(t) = -0.08t^2 + 4.48$ , where *t* is the time in seconds after it is thrown and *h* is the javelin's height in feet. How long will it take for the javelin to hit the ground?

