Name Date Class	
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LESSON Practice B

5-3 Solving Quadratic Equations by Graphing and Factoring

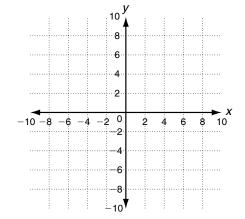
Find the zeros of each function by using a graph and a table.

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?

