

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

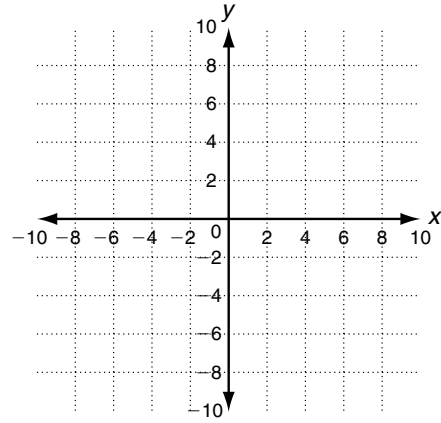
x	-4	-3	-2	-1	0
f(x)					

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

x	-2	0	2	4	6
f(x)					

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Find the zeros of each function by factoring.

3.  $h(x) = -x^2 - 6x - 9$

4.  $f(x) = 2x^2 + 9x + 4$

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

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Find the roots of each equation by factoring.

6.  $12x = 9x^2 + 4$

7.  $16x^2 = 9$

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

8. -2 and 7

9. 1 and -8

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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?

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