## 2-6 Additional Practice

enVision Algebra 2

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The Quadratic Formula

## Use the Quadratic Formula to solve the equation. Show your work.

**1.** 
$$x^2 - 15x + 7 = 0$$
 **2.**  $3x^2 + 2x + 1 = 0$ 

Use two different methods to solve the equations. Show your work.

**3.** 
$$x^2 + 4x - 5 = 0$$

Use the discriminant to describe the solutions as one real, two real, or two imaginary solutions.

**4.** 
$$x^2 - 15x + 12 = 0$$
 **5.**  $3x^2 - 6x + 4 = 0$ 

- 6. Find the value(s) of k that will cause the equation  $4x^2 + kx + 4$  to have zero real solutions, one real solution, or two real solutions.
- 7. Margaret runs a business. This year's revenue is given by the function  $R = -0.5x^2 200x$ . Can her revenue be at least \$25,000 this year?