

**UNIT 3 • MODELING AND ANALYZING QUADRATIC FUNCTIONS****Lesson 1: Creating and Solving Quadratic Equations in One Variable**

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**Scaffolded Practice 3.1.6****Example 1**Solve  $x^2 - 8x + 16 = 4$ .

1. Determine if  $x^2 - 8x + 16$  is a perfect square trinomial.
  
2. Write the left side of the equation as a binomial squared.
  
3. Take the square root of both sides of the equation to solve for  $x$ .
  
4. Determine the solution(s).

***continued***

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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#### Example 2

Solve  $x^2 + 6x + 4 = 0$  by completing the square.

#### Example 3

Solve  $5x^2 - 50x - 120 = 0$  by completing the square.