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

Example 2

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

Example 3

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