

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

Example 2

Factor $5y^2 - 45$, and then verify your results.

Example 3

The polynomial expression $x^2 + 7x - 8$ represents the area in square feet of the Bingham family's rectangular backyard. Factor this polynomial to find the expressions that represent the length and the width of the backyard, and then verify your results.

Example 4

Factor $2a^2 - 16a + 32$, and then verify your results.

Example 5

Factor $x^2 - 18x + 81$, and then verify your results.