Α

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

Practice 3.1.3: Factoring Expressions with a = 1

For problems 1–7, factor each expression as much as possible. If the expression cannot be factored, write "not factorable."

- 1. $y^2 100$
- 2. $x^2 9x + 14$
- 3. $x^2 + 16x + 64$
- 4. $b^2 + 4$
- 5. $7a^2 28$
- 6. $4x^2 + 32x 36$
- 7. $6x^2 54y^2$

For problems 8–10, each expression represents the area of a rectangle or square. Factor each expression to find the expressions that represent the length and width of each figure.

- 8. $(a^2 14a + 49)$ square feet
- 9. $(4x^2 25)$ square meters
- 10. $(y^2 + 3y 10)$ square inches