

Name : _____ Date: _____ Period: _____

Solve Quadratic Equations by Factoring

Solve the following by factoring:

1. $x^2 + 3 = 4x$

2. $2x^2 + x = 6$

3. $x^2 - x = 0$

4. $6x^2 = 1 - x$

5. $x^2 - 12 = 4x$

6. $x^2 + 6x + 9 = 0$

7. $x^2 - 25 = 0$

8. $6 - 7x = 3x^2$

9. $2x^2 - 20x + 42 = 0$

10. $4x^2 - 1 = 0$

11. $12 + 24x^2 - 34x = 0$

12. $x^2 - 9 = 8x$

13. The area of a rectangular floor is described by the equation

$$w(w - 9) = 252$$

Where w is the width of the floor in meters. What is the width of the floor?