

Review Worksheet for Unit 3 Quiz

Name _____ Date _____

Solve by using the zero – product property.

1) $x(3x + 12) = 0$

2) $(x - 4)(2x - 8) = 0$

3) $4x(2x + 6) = 0$

4) $(6x + 6)(6x - 6) = 0$

Solve by factoring.

5) $4x^2 - 9 = 0$

6) $x^2 - x - 6 = 0$

7) $4x^2 = 4x + 15$

8) $5x^2 + x = 4$

9) $2x^2 + x = 6$

10) $3x^2 - 12x + x - 4 = 0$

$$11) 3x^2 + 6x = -3$$

$$12) 3x^2 - x - 2 = 0$$

Solve by taking square roots.

$$13) x^2 - 49 = 0$$

$$14) 2x^2 - 72 = 0$$

$$15) x^2 + 16 = 32$$

$$16) 8x^2 - 7 = 193$$

$$17) 7x^2 + 1 = 29$$

$$18) \frac{x^2 - 6}{2} = 15$$