



Name: _____ Period: _____

SM2 6.4 Review on Solving Quadratic Equations

Solve for x by factoring.

1. $(2x - 1)(x + 3) = 0$

2. $x^2 + 9x = -18$

3. $5x^2 = 10x$

4. $3x^2 + 8x - 16 = 0$

5. $-x^2 + 3x - 2 = 0$

6. $5x^2 + 13x = 6$

Solve for x by using the quadratic formula. $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

7. $5x^2 - 9x = -4$

8. $x^2 + 4x + 8 = 0$

a = _____, b = _____, c = _____

a = _____, b = _____, c = _____

$$9. x^2 + 2x - 13 = 0$$

$$a = \underline{\hspace{2cm}}, b = \underline{\hspace{2cm}}, c = \underline{\hspace{2cm}}$$

$$10. x^2 + 10x - 3 = 0$$

$$a = \underline{\hspace{2cm}}, b = \underline{\hspace{2cm}}, c = \underline{\hspace{2cm}}$$

$$11. x^2 - 9x = 5$$

$$a = \underline{\hspace{2cm}}, b = \underline{\hspace{2cm}}, c = \underline{\hspace{2cm}}$$

$$12. 3x^2 = 6x - 4$$

$$a = \underline{\hspace{2cm}}, b = \underline{\hspace{2cm}}, c = \underline{\hspace{2cm}}$$

Solve for x by using the square root principle.

$$13. x^2 = 64$$

$$14. x^2 = 72$$

$$15. -10x^2 = -200$$

$$16. x^2 + 4 = 85$$

$$17. 2x^2 - 7 = -25$$

$$18. 8(x + 1)^2 = -184$$