

Name: _____

Points: _____

Solve and check your answers.

a. $\sqrt{x+2} = 6$

b. $\sqrt{2x+5} + 7 = 2$

c. $\sqrt{x+6} = \sqrt{2x-10}$

d. $x + \sqrt{x+1} = 1$

e. $\sqrt{2x+1} + 7 = x$

f. $x - 2\sqrt{4x-3} = 3$

1. A _____ is an equation that can be written in the form

$$ax^2 + bx + c = 0, a \neq 0$$

2. According to the square root property, if $a^2 = b$ then $a =$ _____, if b is a real number.

3. Use the square root property to solve each equation.

a. $x^2 = 49$

b. $x^2 = 72$

c. $(x+6)^2 = 25$

d. $(x-3)^2 = 24$

4. The quadratic formula is : _____

Solve each equation by using the quadratic formula.

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

b. $x^2 + 8x = 6$

c. $2x^2 - 4x = 3$

d. $3x^2 + 6x - 5 = 0$