Solve by the Quadratic Formula

STEPS:

1. Write in standard form.
2. Identify a, b, and c.
3. Substitute the numbers into the formula below.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

4. Simplify and solve.

Solve the equation by the quadratic formula.

$x^2 - 8x + 12 = 0$

a = ___ b = ___ c = ___

$$x = \frac{-(\quad) \pm \sqrt{(\quad)^2 - 4(\quad)(\quad)}}{2(\quad)}$$

x =

$x^2 - 6x - 14 = 0$

a = ___ b = ___ c = ___

$$x = \frac{-(\quad) \pm \sqrt{(\quad)^2 - 4(\quad)(\quad)}}{2(\quad)}$$

x =

$x^2 - 8x + 25 = 0$

a = ___ b = ___ c = ___

$$x = \frac{-(\quad) \pm \sqrt{(\quad)^2 - 4(\quad)(\quad)}}{2(\quad)}$$

x =

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

a = ___ b = ___ c = ___

$$x = \frac{-(\quad) \pm \sqrt{(\quad)^2 - 4(\quad)(\quad)}}{2(\quad)}$$

x =

$x^2 - 14x = 4$

a = ___ b = ___ c = ___

$$x = \frac{-(\quad) \pm \sqrt{(\quad)^2 - 4(\quad)(\quad)}}{2(\quad)}$$

x =

$x^2 - 10x = -49$

a = ___ b = ___ c = ___

$$x = \frac{-(\quad) \pm \sqrt{(\quad)^2 - 4(\quad)(\quad)}}{2(\quad)}$$

x =

$2x^2 + 6x - 5 = 0$

a = ___ b = ___ c = ___

$$x = \frac{-(\quad) \pm \sqrt{(\quad)^2 - 4(\quad)(\quad)}}{2(\quad)}$$

x =

$3x^2 - 16x + 10 = 0$

a = ___ b = ___ c = ___

$$x = \frac{-(\quad) \pm \sqrt{(\quad)^2 - 4(\quad)(\quad)}}{2(\quad)}$$

x =