Algebra 2

Bellwork Monday, November 30, 2015

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

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Find all real solutions to each quadratic equation. Give exact solutions. Use Factoring, Square Roots, and the Quadratic Formula. Each method must be used at least one time.

1.
$$x^2 - 2x = 80$$

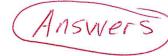
2.
$$5x^2 - 31 = 9$$

$$3. \ 2x^2 + 11 = 10x$$

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

$$5. \ 3x^2 - 2x + 7 = 0$$

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FACTORING

1.
$$x^2 - 2x = 80$$

$$(x-10)(x+8)=0$$

(2x-1)(2x+3)=>

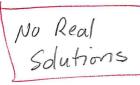
2.
$$5x^2 - 31 = 9$$

$$\frac{5x^2 = 40}{5}$$

$$\sqrt{X^2 = 8}$$

$$X = \pm 2\sqrt{2}$$

$$3x^2 - 2x + 7 = 0$$



GYAD FORMUL

$$3. \ 2x^2 + 11 = 10x$$

$$2x^{2} - 10x + 11 = 0$$

 $b^{2} - 4ac = 12$

$$X = \frac{10 \pm \sqrt{12}}{4} = \frac{10 \pm 2}{4}$$
 $X = \frac{5 \pm \sqrt{3}}{4}$