Bellwork Wednesday, December 3, 2015 Algebra 2

1. Write this equation in Vertex Form: $y = x^2 - 16x + 13$

Find the exact solutions to each by completing the square.

2.
$$x^2 + 14x - 11 = 0$$

$$3. \quad x^2 - 7x + 32 = 0$$

4.
$$2x^2 + 48x + 88 = 0$$

Algebra 2



1. Write this equation in Vertex Form: $y = x^2 - 16x + 13$

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Write this equation in Vertex Form:
$$y = x^2 - 16x + 13$$

$$y = (x - 8)^2$$

$$y = (x - 8)^2 - 51$$

$$y = (x - 8)^2 - 51$$

Find the exact solutions to each by completing the square.

2.
$$x^2 + 14x - 11 = 0$$

$$X = -7 \pm 2\pi 5$$

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$$X = -7 \pm 2\pi 5$$

$$X + 7 = \pm 2\pi 5$$

$$4. 2x^{2} + 48x + 88 = 0$$

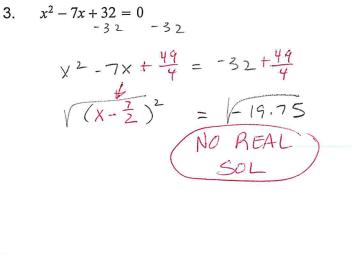
$$-88 - 88$$

$$4. \quad 2x^2 + 48x + 88 = 0$$

$$\frac{-88 - 68}{2 \times 2 + 48 \times} = -88$$

$$\frac{-2 \times 2 + 48 \times}{2} = -88$$

$$\times 2 + 24 \times +144 = -44 +145$$



$$X = -22, -2$$