

Bellwork Alg 2A Friday, March 24, 2017

Fill in the blanks to complete the square.

1. $x^2 - 12x$ _____ $= (x \quad)^2$

2. $x^2 + 11x$ _____ $= (x \quad)^2$

Solve each by Completing the Square.

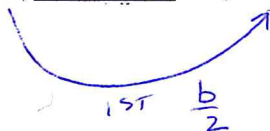
3. $x^2 + 26x$ _____ $= 9$

4. $x^2 + 14x + 121 = 0$

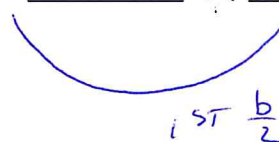
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Fill in the blanks to complete the square.

1. $x^2 - 12x$ +36 $= (x - 6)^2$



2. $x^2 + 11x$ +121/4 $= (x + 11/2)^2$



ANSWERS

Solve each by Completing the Square.

3. $x^2 + 26x + 169 = 9 + 169$

$(x + 13)^2 = 178$

$x + 13 = \pm \sqrt{178}$

$x = -13 \pm \sqrt{178}$

4. $x^2 + 14x + 121 = 0$

$x^2 + 14x + 49 = -121 + 49$

$(x + 7)^2 = -72 \rightarrow -36 \cdot 2$

$x + 7 = \pm 6i\sqrt{2}$

$x = -7 \pm 6i\sqrt{2}$