

Name \_\_\_\_\_  
Alg1

January 3, 2019  
Completing the Square

Solve using the quadratic formula:

1)  $x^2 + 8x - 32 = 0$

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

Factor:

1)  $x^2 + 4x + 4$

2)  $x^2 - 6x + 9$

3)  $x^2 - 18x + 81$

4)  $x^2 + 10x + 25$

5)  $x^2 - 20x + 100$

6)  $x^2 + 8x + 16$

7)  $x^2 - 22x + 121$

8)  $x^2 + 32x + 256$

9)  $x^2 - 40x + 400$

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**Solve by Completing the Square:**

1)  $x^2 + 8x - 32 = 0$

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**Solve by Completing the Square:**

$$2) x^2 - 10x + 1 = 0$$

$$3) x^2 + 18x - 17 = 0$$