First & Last Name_____ Date _____ Period_____

4.5 Solving by Completing the Square Practice

Directions: Solve each equation by completing the square.

1. $x^2 + 10x - 96 = 0$

$x = \{-16, 6\}$

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

$x = \left\{\frac{\sqrt{7}}{2} + \frac{1}{2}, -\frac{\sqrt{7}}{2} + \frac{1}{2}\right\}$

3. $x^2 - 8x + 4 = 0$

$x = \{\pm 2\sqrt{3} + 4\}$

4. $2x^2 - 20x + 89 = -87$

$x = \{5 \pm 3i\sqrt{7}\}$