First & Last Name_____ Date _____ Period_____

4.7 Solving Quadratics Review Practice

Directions: Solve each equation using the indicated method

1. $x^2 = 6x + 91$ FACTORING

$x = \{-7, 13\}$

2. $2x^2 - 13x - 7 = 0$ FACTORING

$x = \{-\frac{1}{2}, 7\}$

3. $-2x^2 + 146 = -34$ SQUARE ROOT

$x = \{-3\sqrt{10}, 3\sqrt{10}\}$

4. $3x^2 + 6x - 62 = 7$ COMPLETING THE SQ

$x = \{-1+2\sqrt{6}, -1-2\sqrt{6}\}$

5. $-x^2 + 7x = 1$ QUADRATIC FORMULA

$x = \{\frac{7}{2} + \frac{3\sqrt{5}}{2}, \frac{7}{2} - \frac{3\sqrt{5}}{2}\}$

6. $5x^2 = x - 2$ QUADRATIC FORMULA

$x = \{\frac{1}{10} + \frac{i\sqrt{39}}{10}, \frac{1}{10} - \frac{i\sqrt{39}}{10}\}$