

## Sec P-5 Solving by CTS &amp; Graphing

Period \_\_\_\_\_

**Solve each equation by completing the square.**

1)  $v^2 + 8v + 9 = 0$

2)  $k^2 - 20k - 98 = 0$

3)  $p^2 + 20p + 89 = 0$

4)  $n^2 - 10n - 80 = 0$

5)  $k^2 + 14k + 18 = 0$

6)  $x^2 + 6x - 89 = 0$

**Solve each equation by graphing. Round to the nearest thousandth when necessary.**

7)  $|3p - 5| = 19$

8)  $5x^2 - 10 = -2x$

$$9) 2x^4 + 13x^2 = 7$$

$$10) 5x^4 - 37x^2 + 42 = 0$$

$$11) 5x^3 - 11x^2 + 7x - 1 = 0$$

$$12) 2x^4 + x^3 - 15x^2 = 0$$

$$13) x^3 + 15x^2 + 24x - 36 = 0$$

$$14) 5x^3 - 9x^2 + 3x + 1 = 0$$

$$15) 6 = \sqrt{8x + 4}$$

$$16) \sqrt{-28 + 11x} = x$$