

Solving Quadratics Homework #1

Date _____ Period _____

For Questions #1-4. Solve each equation by factoring.

1) $v^2 + 5v - 24 = 0$

2) $a^2 - 9a + 18 = 0$

3) $3k^2 - 8k = 3$

4) $5x^2 - 7x = 6$

For Questions #5-12. Solve each equation by taking square roots.

5) $v^2 - 8 = -7$

6) $2x^2 + 10 = 142$

7) $5a^2 - 1 = 214$

8) $9p^2 + 1 = -80$

$$9) (x - 5)^2 - 100 = 0$$

$$10) (x - 2)^2 - 12 = 0$$

$$11) 10(x - 7)^2 = 440$$

$$12) 9(2m - 3)^2 + 8 = 449$$

For Questions #13-16, Solve each equation by completing the square.

$$13) m^2 + 20m + 91 = 0$$

$$14) r^2 - 16r - 86 = 3$$

$$15) 2x^2 + 8x - 24 = 0$$

$$16) 10n^2 - 60 = 20n$$