

Solving Quadratics by the Square Root Method HW-1 Date _____ DUE: _____

Solve each equation by taking square roots.

1) $x^2 = 49$

2) $n^2 = 81$

3) $v^2 = 16$

4) $p^2 = 25$

5) $n^2 = 94$

6) $m^2 + 8 = 45$

7) $x^2 - 5 = 84$

8) $x^2 - 3 = 38$

$$9) -4v^2 = -324$$

$$10) -4n^2 = -152$$

$$11) -10 - 4n^2 = -56$$

$$12) 3k^2 - 2 = 16$$

$$13) 9x^2 - 8 = 541$$

$$14) 5x^2 + 5 = 355$$

$$15) 2n^2 - 8 = 10$$

Solve each equation by factoring.

$$16) (n + 7)(n + 4) = 0$$

$$17) 3n^2 + 8n = -n^2 + 192$$