

Section 7.1 WS

Date _____ Period _____

Solve each equation by taking square roots.

1) $(r + 9)^2 = 3$

2) $5m^2 + 2 = 1$

3) $2n^2 - 6 = -19$

4) $9x^2 - 1 = -7$

Solve each equation by completing the square.

5) $x^2 - 4x - 32 = 0$

6) $x^2 - 12x - 49 = 0$

7) $n^2 - 8n - 48 = 0$

8) $2x^2 + 4x + 62 = 0$

$$9) 4x^2 + 16x + 21 = 0$$

$$10) x^2 + 11x + 18 = 0$$

$$11) p^2 - 19p + 92 = 0$$

$$12) k^2 = 36 + 6k$$

$$13) x^2 = 18x - 80$$

$$14) 6m^2 - 52 = 12m$$

$$15) 2r^2 = -82 - 16r$$

$$16) 4m^2 - 8m = -35$$

$$17) 9v^2 + 16v = 33$$

$$18) b^2 + 14b = -97$$