

Solving Quadratic Equations By Completing the Square Date _____ Period _____

Solve each equation by completing the square.

1) $p^2 + 14p - 38 = 0$

2) $v^2 + 6v - 59 = 0$

3) $a^2 + 14a - 51 = 0$

4) $x^2 - 12x + 11 = 0$

5) $x^2 + 6x + 8 = 0$

6) $n^2 - 2n - 3 = 0$

7) $x^2 + 14x - 15 = 0$

8) $k^2 - 12k + 23 = 0$

9) $r^2 - 4r - 91 = 7$

10) $x^2 - 10x + 26 = 8$

11) $k^2 - 4k + 1 = -5$

12) $b^2 + 2b = -20$

$$13) v^2 - 6v = -91$$

$$14) n^2 = 18n + 40$$

$$15) 5k^2 = 60 - 20k$$

$$16) 6x^2 - 48 = -12x$$

$$17) 8x^2 + 16x = 42$$

$$18) 9n^2 + 79 = -18n$$

$$19) 2a^2 = -6 + 8a$$

$$20) 2x^2 - 5x + 67 = 0$$

$$21) 4n^2 + 4n + 36 = 0$$

$$22) 7k^2 - 16k + 100 = 0$$

$$23) 10p^2 + 4p + 77 = 9$$

$$24) 3x^2 = -4 + 8x$$