Name_____

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