

Completing the Square Practice

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Date_____ Period____

Find the value that completes the square and then rewrite as a perfect square.

1) $x^2 - 20x + \underline{\hspace{2cm}}$

2) $p^2 - 8p + \underline{\hspace{2cm}}$

3) $x^2 - 9x + \underline{\hspace{2cm}}$

4) $x^2 + 6x + \underline{\hspace{2cm}}$

5) $z^2 + 5z + \underline{\hspace{2cm}}$

Solve each equation by completing the square.

6) $n^2 + 10n - 11 = 0$

7) $r^2 + 12r - 18 = 0$

8) $a^2 - 14a + 48 = 0$

9) $x^2 + 2x - 9 = 0$

10) $v^2 + 10v + 9 = 0$

11) $4x^2 + 16x - 45 = 8$

$$12) \ 7n^2 + 14n - 50 = 6$$

$$13) \ 3p^2 - 12p - 73 = -10$$

$$14) \ 2x^2 - 8x - 45 = 10$$

$$15) \ 10k^2 + 20k - 84 = -4$$

$$16) \ 6r^2 + 12r - 47 = 1$$

$$17) \ 2m^2 - 94 = -10 - 12m$$

$$18) \ 3n^2 + 18n - 27 = -6n^2$$

$$19) \ 8x^2 - 91 = -16x - 6$$

$$20) \ 7x^2 + 14x = 21$$