

Completing the Square/Quadratic Formula

Solve each equation by completing the square.

1) $n^2 - 14n + 31 = 0$

2) $b^2 - 12b - 79 = 0$

3) $k^2 + 16k + 61 = 0$

4) $x^2 - 20x + 96 = 0$

$$5) x^2 + 6x + 12 = 4$$

$$6) x^2 + 20x - 49 = -5$$

$$7) n^2 - 12n - 26 = 5$$

$$8) x^2 - 8x - 38 = -5$$

Solve each equation using the quadratic formula.

9) $9r^2 + 2r - 3 = 0$

10) $4x^2 - x - 33 = 0$

11) $p^2 + 3p + 5 = 0$

12) $3m^2 + 2m - 56 = 0$

$$13) 6a^2 - 6 = 0$$

$$14) 10n^2 - 22 = 0$$

$$15) 2x^2 + 9x - 5 = 12$$

$$16) 10a^2 - 3a - 14 = 6$$