

Elementary Algebra Skill

Solving Quadratic Equations: Completing the Square

Solve each equation by completing the square.

1) $x^2 + 2x - 24 = 0$

2) $p^2 + 12p - 54 = 0$

3) $x^2 - 8x + 15 = 0$

4) $r^2 + 18r + 56 = 0$

5) $m^2 - 6m - 55 = 0$

6) $m^2 - 4m - 91 = 0$

7) $m^2 + 16m - 32 = -7$

8) $r^2 - 8r = -8$

9) $n^2 = -14n - 37$

10) $n^2 - 2n = 15$

11) $x^2 + 15x + 15 = 2 + x$

12) $-3n^2 + 4n - 59 = -4n^2$

13) $5n^2 - 20n + 6 = 0$

14) $3a^2 - 6a - 34 = 0$

15) $3x^2 - x - 3 = 0$

16) $2v^2 + 5v - 7 = 0$

17) $4n^2 + 11n = 15$

18) $9a^2 - 21 = 13a$

19) $3m^2 - 10m + 11 = 4$

20) $3m^2 - 16m - 2 = -7$