

# Completing the Square Printable Worksheet

Solve each quadratic equation by completing the square. Show all work and simplify when possible. An answer key is included on the final page.

1.  $x^2 + 6x + 5 = 0$

2.  $x^2 + 8x + 7 = 0$

3.  $x^2 - 4x - 5 = 0$

4.  $x^2 + 10x + 9 = 0$

5.  $x^2 - 2x - 15 = 0$

6.  $x^2 + 12x + 20 = 0$

7.  $x^2 - 6x + 5 = 0$

8.  $x^2 + 14x + 40 = 0$

9.  $x^2 - 8x + 7 = 0$

10.  $x^2 + 4x - 12 = 0$

11.  $x^2 + 2x - 8 = 0$

12.  $x^2 - 10x + 9 = 0$

13.  $x^2 + 16x + 55 = 0$

14.  $x^2 - 12x + 20 = 0$

15.  $x^2 + 6x - 7 = 0$

16.  $x^2 - 14x + 45 = 0$

17.  $x^2 + 18x + 72 = 0$

18.  $x^2 - 16x + 63 = 0$

19.  $x^2 + 20x + 75 = 0$

20.  $x^2 - 18x + 77 = 0$

# Answer Key

1.  $x = -1, -5$
2.  $x = -1, -7$
3.  $x = 5, -1$
4.  $x = -1, -9$
5.  $x = 5, -3$
6.  $x = -2, -10$
7.  $x = 1, 5$
8.  $x = -4, -10$
9.  $x = 1, 7$
10.  $x = 2, -6$
11.  $x = 2, -4$
12.  $x = 1, 9$
13.  $x = -5, -11$
14.  $x = 2, 10$
15.  $x = 1, -7$
16.  $x = 5, 9$
17.  $x = -6, -12$
18.  $x = 7, 9$
19.  $x = -5, -15$
20.  $x = 7, 11$