

# Solving Quadratic Equations (J)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Solve each equation for x.

1.  $x^2 + 3x - 18 = 0$

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

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

12.  $x^2 - 9x + 20 = 0$

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

13.  $x^2 - x - 2 = 0$

4.  $x^2 + 6x - 27 = 0$

14.  $x^2 - 13x + 36 = 0$

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

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

6.  $x^2 + 9x + 18 = 0$

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

7.  $x^2 - x - 72 = 0$

17.  $x^2 + 4x - 45 = 0$

8.  $x^2 - 81 = 0$

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

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

19.  $x^2 - 10x + 16 = 0$

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

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

# Solving Quadratic Equations (J) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Solve each equation for x.

1.  $x^2 + 3x - 18 = 0$   
 $(x + 6)(x - 3) = 0$   
 $x = -6, 3$

2.  $x^2 + 4x - 5 = 0$   
 $(x + 5)(x - 1) = 0$   
 $x = -5, 1$

3.  $x^2 - 2x - 3 = 0$   
 $(x + 1)(x - 3) = 0$   
 $x = -1, 3$

4.  $x^2 + 6x - 27 = 0$   
 $(x - 3)(x + 9) = 0$   
 $x = 3, -9$

5.  $x^2 + 3x - 4 = 0$   
 $(x - 1)(x + 4) = 0$   
 $x = 1, -4$

6.  $x^2 + 9x + 18 = 0$   
 $(x + 6)(x + 3) = 0$   
 $x = -6, -3$

7.  $x^2 - x - 72 = 0$   
 $(x + 8)(x - 9) = 0$   
 $x = -8, 9$

8.  $x^2 - 81 = 0$   
 $(x + 9)(x - 9) = 0$   
 $x = -9, 9$

9.  $x^2 + 2x - 8 = 0$   
 $(x - 2)(x + 4) = 0$   
 $x = 2, -4$

10.  $x^2 + 5x - 6 = 0$   
 $(x - 1)(x + 6) = 0$   
 $x = 1, -6$

11.  $x^2 + 17x + 72 = 0$   
 $(x + 9)(x + 8) = 0$   
 $x = -9, -8$

12.  $x^2 - 9x + 20 = 0$   
 $(x - 4)(x - 5) = 0$   
 $x = 4, 5$

13.  $x^2 - x - 2 = 0$   
 $(x + 1)(x - 2) = 0$   
 $x = -1, 2$

14.  $x^2 - 13x + 36 = 0$   
 $(x - 4)(x - 9) = 0$   
 $x = 4, 9$

15.  $x^2 + 7x + 6 = 0$   
 $(x + 6)(x + 1) = 0$   
 $x = -6, -1$

16.  $x^2 + 5x + 6 = 0$   
 $(x + 3)(x + 2) = 0$   
 $x = -3, -2$

17.  $x^2 + 4x - 45 = 0$   
 $(x + 9)(x - 5) = 0$   
 $x = -9, 5$

18.  $x^2 + x - 2 = 0$   
 $(x - 1)(x + 2) = 0$   
 $x = 1, -2$

19.  $x^2 - 10x + 16 = 0$   
 $(x - 8)(x - 2) = 0$   
 $x = 8, 2$

20.  $x^2 - x - 12 = 0$   
 $(x - 4)(x + 3) = 0$   
 $x = 4, -3$