

# Solving Quadratic Equations (G)

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

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

Solve each equation for x.

1.  $x^2 + 3x - 10 = 0$

11.  $x^2 - 14x + 48 = 0$

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

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

3.  $x^2 - 2x - 48 = 0$

13.  $x^2 + 14x + 45 = 0$

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

14.  $x^2 + 14x + 49 = 0$

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

15.  $x^2 + x - 72 = 0$

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

16.  $x^2 - 3x - 18 = 0$

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

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

8.  $x^2 - 7x + 12 = 0$

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

9.  $x^2 - 3x - 28 = 0$

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

10.  $x^2 - 12x + 27 = 0$

20.  $x^2 + 3x - 40 = 0$

# Solving Quadratic Equations (G) Answers

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

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

Solve each equation for x.

1.  $x^2 + 3x - 10 = 0$   
 $(x + 5)(x - 2) = 0$   
 $x = -5, 2$

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

3.  $x^2 - 2x - 48 = 0$   
 $(x - 8)(x + 6) = 0$   
 $x = 8, -6$

4.  $x^2 - 14x + 45 = 0$   
 $(x - 9)(x - 5) = 0$   
 $x = 9, 5$

5.  $x^2 + 9x + 8 = 0$   
 $(x + 1)(x + 8) = 0$   
 $x = -1, -8$

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

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

8.  $x^2 - 7x + 12 = 0$   
 $(x - 4)(x - 3) = 0$   
 $x = 4, 3$

9.  $x^2 - 3x - 28 = 0$   
 $(x - 7)(x + 4) = 0$   
 $x = 7, -4$

10.  $x^2 - 12x + 27 = 0$   
 $(x - 9)(x - 3) = 0$   
 $x = 9, 3$

11.  $x^2 - 14x + 48 = 0$   
 $(x - 6)(x - 8) = 0$   
 $x = 6, 8$

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

13.  $x^2 + 14x + 45 = 0$   
 $(x + 9)(x + 5) = 0$   
 $x = -9, -5$

14.  $x^2 + 14x + 49 = 0$   
 $(x + 7)(x + 7) = (x + 7)^2 = 0$   
 $x = -7$

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

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

17.  $x^2 - 8x + 7 = 0$   
 $(x - 7)(x - 1) = 0$   
 $x = 7, 1$

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

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

20.  $x^2 + 3x - 40 = 0$   
 $(x + 8)(x - 5) = 0$   
 $x = -8, 5$