

# Solving Quadratic Equations (A)

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

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

Solve each equation for x.

1.  $4x^2 - 9 = 0$

11.  $4x^2 + 7x - 36 = 0$

2.  $3x^2 + 5x - 28 = 0$

12.  $2x^2 - 17x + 36 = 0$

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

13.  $x^2 + 5x - 14 = 0$

4.  $3x^2 + 7x - 40 = 0$

14.  $2x^2 + 23x + 56 = 0$

5.  $4x^2 - 1 = 0$

15.  $4x^2 - 13x + 9 = 0$

6.  $2x^2 - 19x + 24 = 0$

16.  $3x^2 - 23x - 8 = 0$

7.  $4x^2 + 9x + 5 = 0$

17.  $4x^2 - 23x + 28 = 0$

8.  $3x^2 + 10x + 8 = 0$

18.  $4x^2 - 27x + 35 = 0$

9.  $3x^2 + 25x + 8 = 0$

19.  $3x^2 - x - 10 = 0$

10.  $3x^2 - 28x + 49 = 0$

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

# Solving Quadratic Equations (A) Answers

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

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

Solve each equation for x.

1.  $4x^2 - 9 = 0$   
 $(2x + 3)(2x - 3) = 0$   
 $x = -1\frac{1}{2}, 1\frac{1}{2}$

2.  $3x^2 + 5x - 28 = 0$   
 $(x + 4)(3x - 7) = 0$   
 $x = -4, 2\frac{1}{3}$

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

4.  $3x^2 + 7x - 40 = 0$   
 $(x + 5)(3x - 8) = 0$   
 $x = -5, 2\frac{2}{3}$

5.  $4x^2 - 1 = 0$   
 $(2x + 1)(2x - 1) = 0$   
 $x = -\frac{1}{2}, \frac{1}{2}$

6.  $2x^2 - 19x + 24 = 0$   
 $(2x - 3)(x - 8) = 0$   
 $x = 1\frac{1}{2}, 8$

7.  $4x^2 + 9x + 5 = 0$   
 $(4x + 5)(x + 1) = 0$   
 $x = -1\frac{1}{4}, -1$

8.  $3x^2 + 10x + 8 = 0$   
 $(x + 2)(3x + 4) = 0$   
 $x = -2, -1\frac{1}{3}$

9.  $3x^2 + 25x + 8 = 0$   
 $(3x + 1)(x + 8) = 0$   
 $x = -\frac{1}{3}, -8$

10.  $3x^2 - 28x + 49 = 0$   
 $(3x - 7)(x - 7) = 0$   
 $x = 2\frac{1}{3}, 7$

11.  $4x^2 + 7x - 36 = 0$   
 $(4x - 9)(x + 4) = 0$   
 $x = 2\frac{1}{4}, -4$

12.  $2x^2 - 17x + 36 = 0$   
 $(2x - 9)(x - 4) = 0$   
 $x = 4\frac{1}{2}, 4$

13.  $x^2 + 5x - 14 = 0$   
 $(x - 2)(x + 7) = 0$   
 $x = 2, -7$

14.  $2x^2 + 23x + 56 = 0$   
 $(2x + 7)(x + 8) = 0$   
 $x = -3\frac{1}{2}, -8$

15.  $4x^2 - 13x + 9 = 0$   
 $(x - 1)(4x - 9) = 0$   
 $x = 1, 2\frac{1}{4}$

16.  $3x^2 - 23x - 8 = 0$   
 $(3x + 1)(x - 8) = 0$   
 $x = -\frac{1}{3}, 8$

17.  $4x^2 - 23x + 28 = 0$   
 $(x - 4)(4x - 7) = 0$   
 $x = 4, 1\frac{3}{4}$

18.  $4x^2 - 27x + 35 = 0$   
 $(4x - 7)(x - 5) = 0$   
 $x = 1\frac{3}{4}, 5$

19.  $3x^2 - x - 10 = 0$   
 $(x - 2)(3x + 5) = 0$   
 $x = 2, -1\frac{2}{3}$

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