

# Solving Quadratic Equations (B)

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

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

Solve each equation for x.

1.  $2x^2 + 7x - 9 = 0$

11.  $2x^2 + 25x + 72 = 0$

2.  $x^2 + 7x - 18 = 0$

12.  $5x^2 + 6x - 8 = 0$

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

13.  $4x^2 - 17x - 15 = 0$

4.  $2x^2 + 15x - 27 = 0$

14.  $2x^2 - 15x + 27 = 0$

5.  $2x^2 + 17x - 9 = 0$

15.  $3x^2 - 4x - 32 = 0$

6.  $2x^2 + 27x + 81 = 0$

16.  $3x^2 + 20x - 63 = 0$

7.  $4x^2 + 24x + 35 = 0$

17.  $3x^2 + 11x + 10 = 0$

8.  $3x^2 - 19x - 72 = 0$

18.  $4x^2 + 31x + 21 = 0$

9.  $2x^2 + 13x + 20 = 0$

19.  $4x^2 + 4x - 3 = 0$

10.  $x^2 - 11x + 30 = 0$

20.  $3x^2 + 4x - 15 = 0$

# Solving Quadratic Equations (B) Answers

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

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

Solve each equation for x.

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

2.  $x^2 + 7x - 18 = 0$   
 $(x + 9)(x - 2) = 0$   
 $x = -9, 2$

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

4.  $2x^2 + 15x - 27 = 0$   
 $(x + 9)(2x - 3) = 0$   
 $x = -9, 1\frac{1}{2}$

5.  $2x^2 + 17x - 9 = 0$   
 $(2x - 1)(x + 9) = 0$   
 $x = \frac{1}{2}, -9$

6.  $2x^2 + 27x + 81 = 0$   
 $(x + 9)(2x + 9) = 0$   
 $x = -9, -4\frac{1}{2}$

7.  $4x^2 + 24x + 35 = 0$   
 $(2x + 5)(2x + 7) = 0$   
 $x = -2\frac{1}{2}, -3\frac{1}{2}$

8.  $3x^2 - 19x - 72 = 0$   
 $(3x + 8)(x - 9) = 0$   
 $x = -2\frac{2}{3}, 9$

9.  $2x^2 + 13x + 20 = 0$   
 $(2x + 5)(x + 4) = 0$   
 $x = -2\frac{1}{2}, -4$

10.  $x^2 - 11x + 30 = 0$   
 $(x - 5)(x - 6) = 0$   
 $x = 5, 6$

11.  $2x^2 + 25x + 72 = 0$   
 $(x + 8)(2x + 9) = 0$   
 $x = -8, -4\frac{1}{2}$

12.  $5x^2 + 6x - 8 = 0$   
 $(5x - 4)(x + 2) = 0$   
 $x = \frac{4}{5}, -2$

13.  $4x^2 - 17x - 15 = 0$   
 $(4x + 3)(x - 5) = 0$   
 $x = -\frac{3}{4}, 5$

14.  $2x^2 - 15x + 27 = 0$   
 $(2x - 9)(x - 3) = 0$   
 $x = 4\frac{1}{2}, 3$

15.  $3x^2 - 4x - 32 = 0$   
 $(3x + 8)(x - 4) = 0$   
 $x = -2\frac{2}{3}, 4$

16.  $3x^2 + 20x - 63 = 0$   
 $(3x - 7)(x + 9) = 0$   
 $x = 2\frac{1}{3}, -9$

17.  $3x^2 + 11x + 10 = 0$   
 $(3x + 5)(x + 2) = 0$   
 $x = -1\frac{2}{3}, -2$

18.  $4x^2 + 31x + 21 = 0$   
 $(4x + 3)(x + 7) = 0$   
 $x = -\frac{3}{4}, -7$

19.  $4x^2 + 4x - 3 = 0$   
 $(2x + 3)(2x - 1) = 0$   
 $x = -1\frac{1}{2}, \frac{1}{2}$

20.  $3x^2 + 4x - 15 = 0$   
 $(3x - 5)(x + 3) = 0$   
 $x = 1\frac{2}{3}, -3$