

# Solving Quadratic Equations (B)

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

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

Solve each equation for x.

1.  $-8x^2 - 58x + 48 = 0$

11.  $12x^2 - 32x - 64 = 0$

2.  $9x^2 - 42x + 45 = 0$

12.  $-9x^2 - 6x + 63 = 0$

3.  $6x^2 - 3x - 30 = 0$

13.  $-2x^2 + 24x - 64 = 0$

4.  $-10x^2 + 65x + 35 = 0$

14.  $-16x^2 + 68x - 16 = 0$

5.  $-8x^2 - 74x - 18 = 0$

15.  $16x^2 - 108x + 72 = 0$

6.  $6x^2 - 63x + 147 = 0$

16.  $20x^2 - 20x - 315 = 0$

7.  $-16x^2 + 92x + 24 = 0$

17.  $10x^2 - 75x + 125 = 0$

8.  $8x^2 + 92x + 224 = 0$

18.  $-4x^2 + 4x + 48 = 0$

9.  $16x^2 - 68x + 16 = 0$

19.  $-4x^2 - 4x + 224 = 0$

10.  $12x^2 + 76x - 160 = 0$

20.  $-12x^2 - 12x + 45 = 0$

# Solving Quadratic Equations (B) Answers

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

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

Solve each equation for x.

- $-8x^2 - 58x + 48 = 0$   
 $-2(4x - 3)(x + 8) = 0$   
 $x = \frac{3}{4}, -8$
- $9x^2 - 42x + 45 = 0$   
 $3(3x - 5)(x - 3) = 0$   
 $x = 1\frac{2}{3}, 3$
- $6x^2 - 3x - 30 = 0$   
 $3(2x - 5)(x + 2) = 0$   
 $x = 2\frac{1}{2}, -2$
- $-10x^2 + 65x + 35 = 0$   
 $-5(x - 7)(2x + 1) = 0$   
 $x = 7, -\frac{1}{2}$
- $-8x^2 - 74x - 18 = 0$   
 $-2(x + 9)(4x + 1) = 0$   
 $x = -9, -\frac{1}{4}$
- $6x^2 - 63x + 147 = 0$   
 $3(x - 7)(2x - 7) = 0$   
 $x = 7, 3\frac{1}{2}$
- $-16x^2 + 92x + 24 = 0$   
 $-4(4x + 1)(x - 6) = 0$   
 $x = -\frac{1}{4}, 6$
- $8x^2 + 92x + 224 = 0$   
 $4(2x + 7)(x + 8) = 0$   
 $x = -3\frac{1}{2}, -8$
- $16x^2 - 68x + 16 = 0$   
 $4(4x - 1)(x - 4) = 0$   
 $x = \frac{1}{4}, 4$
- $12x^2 + 76x - 160 = 0$   
 $4(3x - 5)(x + 8) = 0$   
 $x = 1\frac{2}{3}, -8$
- $12x^2 - 32x - 64 = 0$   
 $4(3x + 4)(x - 4) = 0$   
 $x = -1\frac{1}{3}, 4$
- $-9x^2 - 6x + 63 = 0$   
 $-3(x + 3)(3x - 7) = 0$   
 $x = -3, 2\frac{1}{3}$
- $-2x^2 + 24x - 64 = 0$   
 $-2(x - 4)(x - 8) = 0$   
 $x = 4, 8$
- $-16x^2 + 68x - 16 = 0$   
 $-4(x - 4)(4x - 1) = 0$   
 $x = 4, \frac{1}{4}$
- $16x^2 - 108x + 72 = 0$   
 $4(x - 6)(4x - 3) = 0$   
 $x = 6, \frac{3}{4}$
- $20x^2 - 20x - 315 = 0$   
 $5(2x - 9)(2x + 7) = 0$   
 $x = 4\frac{1}{2}, -3\frac{1}{2}$
- $10x^2 - 75x + 125 = 0$   
 $5(x - 5)(2x - 5) = 0$   
 $x = 5, 2\frac{1}{2}$
- $-4x^2 + 4x + 48 = 0$   
 $-4(x + 3)(x - 4) = 0$   
 $x = -3, 4$
- $-4x^2 - 4x + 224 = 0$   
 $-4(x + 8)(x - 7) = 0$   
 $x = -8, 7$
- $-12x^2 - 12x + 45 = 0$   
 $-3(2x - 3)(2x + 5) = 0$   
 $x = 1\frac{1}{2}, -2\frac{1}{2}$