

Solving Quadratic Equations (B)

Name: _____

Date: _____

Solve each equation for x.

1. $-4x^2 + 8x - 3 = 0$

11. $-2x^2 - x + 3 = 0$

2. $-2x^2 + 11x + 63 = 0$

12. $4x^2 + 4x - 3 = 0$

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

13. $2x^2 - 11x + 9 = 0$

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

14. $4x^2 + 35x - 9 = 0$

5. $3x^2 - 8x - 3 = 0$

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

6. $-4x^2 + 43x - 63 = 0$

16. $-x^2 - 7x - 12 = 0$

7. $-4x^2 - 23x + 72 = 0$

17. $2x^2 - 13x - 45 = 0$

8. $-3x^2 - 5x - 2 = 0$

18. $-2x^2 + 5x - 2 = 0$

9. $-3x^2 - 22x + 45 = 0$

19. $-3x^2 + 25x + 18 = 0$

10. $4x^2 - 35x - 9 = 0$

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

Solving Quadratic Equations (B) Answers

Name: _____

Date: _____

Solve each equation for x.

- $-4x^2 + 8x - 3 = 0$
 $-(2x - 1)(2x - 3) = 0$
 $x = \frac{1}{2}, 1\frac{1}{2}$
- $-2x^2 + 11x + 63 = 0$
 $-(x - 9)(2x + 7) = 0$
 $x = 9, -3\frac{1}{2}$
- $2x^2 + 7x + 3 = 0$
 $(2x + 1)(x + 3) = 0$
 $x = -\frac{1}{2}, -3$
- $x^2 - 4x - 32 = 0$
 $(x - 8)(x + 4) = 0$
 $x = 8, -4$
- $3x^2 - 8x - 3 = 0$
 $(x - 3)(3x + 1) = 0$
 $x = 3, -\frac{1}{3}$
- $-4x^2 + 43x - 63 = 0$
 $-(x - 9)(4x - 7) = 0$
 $x = 9, 1\frac{3}{4}$
- $-4x^2 - 23x + 72 = 0$
 $-(4x - 9)(x + 8) = 0$
 $x = 2\frac{1}{4}, -8$
- $-3x^2 - 5x - 2 = 0$
 $-(x + 1)(3x + 2) = 0$
 $x = -1, -\frac{2}{3}$
- $-3x^2 - 22x + 45 = 0$
 $-(x + 9)(3x - 5) = 0$
 $x = -9, 1\frac{2}{3}$
- $4x^2 - 35x - 9 = 0$
 $(4x + 1)(x - 9) = 0$
 $x = -\frac{1}{4}, 9$
- $-2x^2 - x + 3 = 0$
 $-(2x + 3)(x - 1) = 0$
 $x = -1\frac{1}{2}, 1$
- $4x^2 + 4x - 3 = 0$
 $(2x - 1)(2x + 3) = 0$
 $x = \frac{1}{2}, -1\frac{1}{2}$
- $2x^2 - 11x + 9 = 0$
 $(x - 1)(2x - 9) = 0$
 $x = 1, 4\frac{1}{2}$
- $4x^2 + 35x - 9 = 0$
 $(x + 9)(4x - 1) = 0$
 $x = -9, \frac{1}{4}$
- $x^2 + 8x - 9 = 0$
 $(x - 1)(x + 9) = 0$
 $x = 1, -9$
- $-x^2 - 7x - 12 = 0$
 $-(x + 4)(x + 3) = 0$
 $x = -4, -3$
- $2x^2 - 13x - 45 = 0$
 $(x - 9)(2x + 5) = 0$
 $x = 9, -2\frac{1}{2}$
- $-2x^2 + 5x - 2 = 0$
 $-(x - 2)(2x - 1) = 0$
 $x = 2, \frac{1}{2}$
- $-3x^2 + 25x + 18 = 0$
 $-(3x + 2)(x - 9) = 0$
 $x = -\frac{2}{3}, 9$
- $x^2 - 3x - 10 = 0$
 $(x + 2)(x - 5) = 0$
 $x = -2, 5$