

Solving Quadratic Equations (C)

Name: _____

Date: _____

Solve each equation for x.

1. $5x^2 - 11x - 12 = 0$

11. $2x^2 + 17x + 35 = 0$

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

12. $x^2 - 17x + 72 = 0$

3. $5x^2 + 38x + 48 = 0$

13. $4x^2 - 5x + 1 = 0$

4. $4x^2 + 25x - 21 = 0$

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

5. $x^2 - x - 42 = 0$

15. $2x^2 + 7x - 72 = 0$

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

16. $4x^2 + 11x - 3 = 0$

7. $3x^2 - 22x + 35 = 0$

17. $2x^2 - 19x + 9 = 0$

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

18. $4x^2 + 33x + 35 = 0$

9. $4x^2 + 31x + 42 = 0$

19. $4x^2 - 13x - 12 = 0$

10. $3x^2 + 20x + 25 = 0$

20. $2x^2 + 5x - 3 = 0$

Solving Quadratic Equations (C) Answers

Name: _____

Date: _____

Solve each equation for x.

1. $5x^2 - 11x - 12 = 0$
 $(5x + 4)(x - 3) = 0$
 $x = -\frac{4}{5}, 3$

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

3. $5x^2 + 38x + 48 = 0$
 $(x + 6)(5x + 8) = 0$
 $x = -6, -1\frac{3}{5}$

4. $4x^2 + 25x - 21 = 0$
 $(x + 7)(4x - 3) = 0$
 $x = -7, \frac{3}{4}$

5. $x^2 - x - 42 = 0$
 $(x + 6)(x - 7) = 0$
 $x = -6, 7$

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

7. $3x^2 - 22x + 35 = 0$
 $(x - 5)(3x - 7) = 0$
 $x = 5, 2\frac{1}{3}$

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

9. $4x^2 + 31x + 42 = 0$
 $(4x + 7)(x + 6) = 0$
 $x = -1\frac{3}{4}, -6$

10. $3x^2 + 20x + 25 = 0$
 $(3x + 5)(x + 5) = 0$
 $x = -1\frac{2}{3}, -5$

11. $2x^2 + 17x + 35 = 0$
 $(x + 5)(2x + 7) = 0$
 $x = -5, -3\frac{1}{2}$

12. $x^2 - 17x + 72 = 0$
 $(x - 8)(x - 9) = 0$
 $x = 8, 9$

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

14. $x^2 - 2x - 15 = 0$
 $(x + 3)(x - 5) = 0$
 $x = -3, 5$

15. $2x^2 + 7x - 72 = 0$
 $(x + 8)(2x - 9) = 0$
 $x = -8, 4\frac{1}{2}$

16. $4x^2 + 11x - 3 = 0$
 $(x + 3)(4x - 1) = 0$
 $x = -3, \frac{1}{4}$

17. $2x^2 - 19x + 9 = 0$
 $(2x - 1)(x - 9) = 0$
 $x = \frac{1}{2}, 9$

18. $4x^2 + 33x + 35 = 0$
 $(4x + 5)(x + 7) = 0$
 $x = -1\frac{1}{4}, -7$

19. $4x^2 - 13x - 12 = 0$
 $(x - 4)(4x + 3) = 0$
 $x = 4, -\frac{3}{4}$

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