

Solving Quadratic Equations (C)

Name: _____

Date: _____

Solve each equation for x.

1. $x^2 + 11x + 28 = 0$

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

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

12. $x^2 - 1 = 0$

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

13. $x^2 + 10x + 21 = 0$

4. $x^2 - 3x - 54 = 0$

14. $x^2 + x - 12 = 0$

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

15. $x^2 - 6x + 8 = 0$

6. $x^2 + 4x + 4 = 0$

16. $x^2 - 4x - 12 = 0$

7. $x^2 - 6x - 7 = 0$

17. $x^2 + 6x + 9 = 0$

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

18. $x^2 + 8x + 12 = 0$

9. $x^2 - 36 = 0$

19. $x^2 - 9x + 14 = 0$

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

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

Solving Quadratic Equations (C) Answers

Name: _____

Date: _____

Solve each equation for x.

1. $x^2 + 11x + 28 = 0$
 $(x + 7)(x + 4) = 0$
 $x = -7, -4$

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

3. $x^2 + x - 6 = 0$
 $(x + 3)(x - 2) = 0$
 $x = -3, 2$

4. $x^2 - 3x - 54 = 0$
 $(x - 9)(x + 6) = 0$
 $x = 9, -6$

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

6. $x^2 + 4x + 4 = 0$
 $(x + 2)(x + 2) = (x + 2)^2 = 0$
 $x = -2$

7. $x^2 - 6x - 7 = 0$
 $(x - 7)(x + 1) = 0$
 $x = 7, -1$

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

9. $x^2 - 36 = 0$
 $(x + 6)(x - 6) = 0$
 $x = -6, 6$

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

11. $x^2 + 4x + 3 = 0$
 $(x + 1)(x + 3) = 0$
 $x = -1, -3$

12. $x^2 - 1 = 0$
 $(x + 1)(x - 1) = 0$
 $x = -1, 1$

13. $x^2 + 10x + 21 = 0$
 $(x + 3)(x + 7) = 0$
 $x = -3, -7$

14. $x^2 + x - 12 = 0$
 $(x + 4)(x - 3) = 0$
 $x = -4, 3$

15. $x^2 - 6x + 8 = 0$
 $(x - 2)(x - 4) = 0$
 $x = 2, 4$

16. $x^2 - 4x - 12 = 0$
 $(x + 2)(x - 6) = 0$
 $x = -2, 6$

17. $x^2 + 6x + 9 = 0$
 $(x + 3)(x + 3) = (x + 3)^2 = 0$
 $x = -3$

18. $x^2 + 8x + 12 = 0$
 $(x + 2)(x + 6) = 0$
 $x = -2, -6$

19. $x^2 - 9x + 14 = 0$
 $(x - 2)(x - 7) = 0$
 $x = 2, 7$

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