

Solving Quadratic Equations (C)

Solve each equation for x

1. $x^2 + 9x + 2 = -6$

7. $x^2 - 2x - 19 = 29$

2. $x^2 + 3x - 1 = 3$

8. $x^2 - 8x - 5 = 4$

3. $x^2 + 9x + 1 = -17$

9. $x^2 + 2x - 6 = 57$

4. $x^2 - 4 = 60$

10. $x^2 + 6x = -5$

5. $x^2 - 7x - 1 = 7$

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

6. $x^2 - 6x - 18 = 9$

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

Solving Quadratic Equations (C) Answers

Solve each equation for x

1. $x^2 + 9x + 2 = -6$
 $x^2 + 9x + 8 = 0$
 $(x + 1)(x + 8) = 0$
 $x = -1, -8$

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

3. $x^2 + 9x + 1 = -17$
 $x^2 + 9x + 18 = 0$
 $(x + 6)(x + 3) = 0$
 $x = -6, -3$

4. $x^2 - 4 = 60$
 $x^2 - 64 = 0$
 $(x - 8)(x + 8) = 0$
 $x = 8, -8$

5. $x^2 - 7x - 1 = 7$
 $x^2 - 7x - 8 = 0$
 $(x + 1)(x - 8) = 0$
 $x = -1, 8$

6. $x^2 - 6x - 18 = 9$
 $x^2 - 6x - 27 = 0$
 $(x - 9)(x + 3) = 0$
 $x = 9, -3$

7. $x^2 - 2x - 19 = 29$
 $x^2 - 2x - 48 = 0$
 $(x + 6)(x - 8) = 0$
 $x = -6, 8$

8. $x^2 - 8x - 5 = 4$
 $x^2 - 8x - 9 = 0$
 $(x - 9)(x + 1) = 0$
 $x = 9, -1$

9. $x^2 + 2x - 6 = 57$
 $x^2 + 2x - 63 = 0$
 $(x - 7)(x + 9) = 0$
 $x = 7, -9$

10. $x^2 + 6x = -5$
 $x^2 + 6x + 5 = 0$
 $(x + 5)(x + 1) = 0$
 $x = -5, -1$

11. $x^2 + 2x - 11 = 13$
 $x^2 + 2x - 24 = 0$
 $(x + 6)(x - 4) = 0$
 $x = -6, 4$

12. $x^2 - 5x - 1 = 5$
 $x^2 - 5x - 6 = 0$
 $(x - 6)(x + 1) = 0$
 $x = 6, -1$