

Solving Quadratic Equations (G)

Name: _____

Date: _____

Solve each equation for x.

1. $x^2 + 12x + 32 = 0$

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

2. $x^2 - 3x - 18 = 0$

12. $x^2 - 14x + 48 = 0$

3. $x^2 - 7x + 12 = 0$

13. $-x^2 - 16x - 64 = 0$

4. $-x^2 + 8x - 7 = 0$

14. $-x^2 + 7x - 12 = 0$

5. $x^2 - 10x + 9 = 0$

15. $x^2 - 10x + 21 = 0$

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

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

7. $-x^2 - 15x - 56 = 0$

17. $-x^2 + 13x - 42 = 0$

8. $-x^2 + 36 = 0$

18. $x^2 - 49 = 0$

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

19. $-x^2 + x + 20 = 0$

10. $-x^2 + 4x + 5 = 0$

20. $-x^2 + 81 = 0$

Solving Quadratic Equations (G) Answers

Name: _____

Date: _____

Solve each equation for x.

1. $x^2 + 12x + 32 = 0$
 $(x + 8)(x + 4) = 0$
 $x = -8, -4$

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

3. $x^2 - 7x + 12 = 0$
 $(x - 4)(x - 3) = 0$
 $x = 4, 3$

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

5. $x^2 - 10x + 9 = 0$
 $(x - 1)(x - 9) = 0$
 $x = 1, 9$

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

7. $-x^2 - 15x - 56 = 0$
 $-(x + 8)(x + 7) = 0$
 $x = -8, -7$

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

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

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

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

12. $x^2 - 14x + 48 = 0$
 $(x - 8)(x - 6) = 0$
 $x = 8, 6$

13. $-x^2 - 16x - 64 = 0$
 $-(x + 8)(x + 8) = -(x + 8)^2 = 0$
 $x = -8$

14. $-x^2 + 7x - 12 = 0$
 $-(x - 3)(x - 4) = 0$
 $x = 3, 4$

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

16. $x^2 - 3x - 10 = 0$
 $(x + 2)(x - 5) = 0$
 $x = -2, 5$

17. $-x^2 + 13x - 42 = 0$
 $-(x - 7)(x - 6) = 0$
 $x = 7, 6$

18. $x^2 - 49 = 0$
 $(x + 7)(x - 7) = 0$
 $x = -7, 7$

19. $-x^2 + x + 20 = 0$
 $-(x - 5)(x + 4) = 0$
 $x = 5, -4$

20. $-x^2 + 81 = 0$
 $-(x + 9)(x - 9) = 0$
 $x = -9, 9$