

Solving Quadratic Equations (F)

Name: _____

Date: _____

Solve each equation for x.

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

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

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

12. $-x^2 - 13x - 42 = 0$

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

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

4. $x^2 - 9x + 18 = 0$

14. $x^2 + 6x - 27 = 0$

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

15. $-x^2 - 17x - 72 = 0$

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

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

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

17. $-x^2 + 4 = 0$

8. $-x^2 - 4x + 45 = 0$

18. $x^2 + 5x - 24 = 0$

9. $x^2 - 10x + 16 = 0$

19. $-x^2 - x + 56 = 0$

10. $x^2 + 5x - 14 = 0$

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

Solving Quadratic Equations (F) Answers

Name: _____

Date: _____

Solve each equation for x.

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

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

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

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

5. $-x^2 - 10x - 16 = 0$
 $-(x + 2)(x + 8) = 0$
 $x = -2, -8$

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

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

8. $-x^2 - 4x + 45 = 0$
 $-(x + 9)(x - 5) = 0$
 $x = -9, 5$

9. $x^2 - 10x + 16 = 0$
 $(x - 8)(x - 2) = 0$
 $x = 8, 2$

10. $x^2 + 5x - 14 = 0$
 $(x - 2)(x + 7) = 0$
 $x = 2, -7$

11. $-x^2 + 9 = 0$
 $-(x - 3)(x + 3) = 0$
 $x = 3, -3$

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

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

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

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

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

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

18. $x^2 + 5x - 24 = 0$
 $(x + 8)(x - 3) = 0$
 $x = -8, 3$

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

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