

Solving Quadratic Equations (E)

Name: _____

Date: _____

Solve each equation for x.

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

11. $x^2 - 11x + 30 = 0$

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

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

3. $x^2 - 4x - 5 = 0$

13. $x^2 - 11x + 28 = 0$

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

14. $x^2 - 6x + 9 = 0$

5. $x^2 - 7x + 10 = 0$

15. $x^2 - 13x + 40 = 0$

6. $x^2 - 49 = 0$

16. $x^2 + 5x + 4 = 0$

7. $x^2 - 9 = 0$

17. $x^2 + 8x + 7 = 0$

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

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

9. $x^2 - 6x - 16 = 0$

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

10. $x^2 + 13x + 36 = 0$

20. $x^2 + 11x + 24 = 0$

Solving Quadratic Equations (E) Answers

Name: _____

Date: _____

Solve each equation for x.

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

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

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

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

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

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

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

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

9. $x^2 - 6x - 16 = 0$
 $(x + 2)(x - 8) = 0$
 $x = -2, 8$

10. $x^2 + 13x + 36 = 0$
 $(x + 9)(x + 4) = 0$
 $x = -9, -4$

11. $x^2 - 11x + 30 = 0$
 $(x - 6)(x - 5) = 0$
 $x = 6, 5$

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

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

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

15. $x^2 - 13x + 40 = 0$
 $(x - 5)(x - 8) = 0$
 $x = 5, 8$

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

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

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

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

20. $x^2 + 11x + 24 = 0$
 $(x + 8)(x + 3) = 0$
 $x = -8, -3$