

Solving Quadratic Equations (A)

Name: _____

Date: _____

Solve each equation for x.

1. $x^2 + 5x + 6 = 0$

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

2. $x^2 - 36 = 0$

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

3. $x^2 - 2x - 15 = 0$

13. $x^2 - 2x - 35 = 0$

4. $x^2 - 3x - 28 = 0$

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

5. $x^2 + 11x + 18 = 0$

15. $x^2 - x - 30 = 0$

6. $x^2 + 14x + 48 = 0$

16. $x^2 - 14x + 45 = 0$

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

17. $x^2 + 9x + 18 = 0$

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

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

9. $x^2 - 6x - 27 = 0$

19. $x^2 + 12x + 27 = 0$

10. $x^2 - 3x - 40 = 0$

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

Solving Quadratic Equations (A) Answers

Name: _____

Date: _____

Solve each equation for x.

1. $x^2 + 5x + 6 = 0$
 $(x + 2)(x + 3) = 0$
 $x = -2, -3$

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

3. $x^2 - 2x - 15 = 0$
 $(x + 3)(x - 5) = 0$
 $x = -3, 5$

4. $x^2 - 3x - 28 = 0$
 $(x + 4)(x - 7) = 0$
 $x = -4, 7$

5. $x^2 + 11x + 18 = 0$
 $(x + 2)(x + 9) = 0$
 $x = -2, -9$

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

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

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

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

10. $x^2 - 3x - 40 = 0$
 $(x - 8)(x + 5) = 0$
 $x = 8, -5$

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

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

13. $x^2 - 2x - 35 = 0$
 $(x - 7)(x + 5) = 0$
 $x = 7, -5$

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

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

16. $x^2 - 14x + 45 = 0$
 $(x - 5)(x - 9) = 0$
 $x = 5, 9$

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

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

19. $x^2 + 12x + 27 = 0$
 $(x + 9)(x + 3) = 0$
 $x = -9, -3$

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