

Solving Quadratic Equations (H)

Name: _____

Date: _____

Solve each equation for x.

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

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

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

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

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

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

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

14. $-x^2 + 6x - 5 = 0$

5. $-x^2 - x + 42 = 0$

15. $x^2 - 4 = 0$

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

16. $-x^2 - 12x - 35 = 0$

7. $-x^2 - 14x - 48 = 0$

17. $-x^2 + 5x + 36 = 0$

8. $-x^2 - 14x - 45 = 0$

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

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

19. $-x^2 - 3x + 10 = 0$

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

20. $-x^2 + 8x - 12 = 0$

Solving Quadratic Equations (H) Answers

Name: _____

Date: _____

Solve each equation for x.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

16. $-x^2 - 12x - 35 = 0$
 $-(x + 7)(x + 5) = 0$
 $x = -7, -5$

17. $-x^2 + 5x + 36 = 0$
 $-(x - 9)(x + 4) = 0$
 $x = 9, -4$

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

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

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