

Solving Quadratic Equations (H)

Name: _____

Date: _____

Solve each equation for x.

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

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

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

12. $x^2 + 16x + 64 = 0$

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

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

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

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

5. $x^2 - 7x - 8 = 0$

15. $x^2 - 36 = 0$

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

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

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

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

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

18. $x^2 + 7x + 10 = 0$

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

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

10. $x^2 - 64 = 0$

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

Solving Quadratic Equations (H) Answers

Name: _____

Date: _____

Solve each equation for x.

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

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

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

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

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

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

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

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

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

10. $x^2 - 64 = 0$
 $(x + 8)(x - 8) = 0$
 $x = -8, 8$

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

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

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

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

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

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

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

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

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

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