

Solving Quadratic Equations (H)

Name: _____

Date: _____

Solve each equation for x.

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

11. $3x^2 - 17x + 10 = 0$

2. $4x^2 - 16x + 15 = 0$

12. $4x^2 - 15x + 9 = 0$

3. $2x^2 + 5x + 3 = 0$

13. $2x^2 - 15x + 7 = 0$

4. $4x^2 + 19x + 12 = 0$

14. $3x^2 - 10x - 48 = 0$

5. $3x^2 - 20x - 63 = 0$

15. $3x^2 - 29x + 40 = 0$

6. $4x^2 + 17x + 4 = 0$

16. $3x^2 - 25x + 8 = 0$

7. $3x^2 + 28x + 49 = 0$

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

8. $4x^2 - 28x + 45 = 0$

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

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

19. $3x^2 - 16x - 12 = 0$

10. $2x^2 + 5x - 63 = 0$

20. $x^2 - 16x + 63 = 0$

Solving Quadratic Equations (H) Answers

Name: _____

Date: _____

Solve each equation for x.

- $x^2 + x - 42 = 0$
 $(x - 6)(x + 7) = 0$
 $x = 6, -7$
- $4x^2 - 16x + 15 = 0$
 $(2x - 3)(2x - 5) = 0$
 $x = 1\frac{1}{2}, 2\frac{1}{2}$
- $2x^2 + 5x + 3 = 0$
 $(x + 1)(2x + 3) = 0$
 $x = -1, -1\frac{1}{2}$
- $4x^2 + 19x + 12 = 0$
 $(4x + 3)(x + 4) = 0$
 $x = -\frac{3}{4}, -4$
- $3x^2 - 20x - 63 = 0$
 $(x - 9)(3x + 7) = 0$
 $x = 9, -2\frac{1}{3}$
- $4x^2 + 17x + 4 = 0$
 $(4x + 1)(x + 4) = 0$
 $x = -\frac{1}{4}, -4$
- $3x^2 + 28x + 49 = 0$
 $(x + 7)(3x + 7) = 0$
 $x = -7, -2\frac{1}{3}$
- $4x^2 - 28x + 45 = 0$
 $(2x - 5)(2x - 9) = 0$
 $x = 2\frac{1}{2}, 4\frac{1}{2}$
- $x^2 + 5x + 4 = 0$
 $(x + 4)(x + 1) = 0$
 $x = -4, -1$
- $2x^2 + 5x - 63 = 0$
 $(2x - 9)(x + 7) = 0$
 $x = 4\frac{1}{2}, -7$
- $3x^2 - 17x + 10 = 0$
 $(3x - 2)(x - 5) = 0$
 $x = \frac{2}{3}, 5$
- $4x^2 - 15x + 9 = 0$
 $(4x - 3)(x - 3) = 0$
 $x = \frac{3}{4}, 3$
- $2x^2 - 15x + 7 = 0$
 $(x - 7)(2x - 1) = 0$
 $x = 7, \frac{1}{2}$
- $3x^2 - 10x - 48 = 0$
 $(x - 6)(3x + 8) = 0$
 $x = 6, -2\frac{2}{3}$
- $3x^2 - 29x + 40 = 0$
 $(3x - 5)(x - 8) = 0$
 $x = 1\frac{2}{3}, 8$
- $3x^2 - 25x + 8 = 0$
 $(x - 8)(3x - 1) = 0$
 $x = 8, \frac{1}{3}$
- $x^2 + 11x + 28 = 0$
 $(x + 4)(x + 7) = 0$
 $x = -4, -7$
- $x^2 - 5x - 14 = 0$
 $(x + 2)(x - 7) = 0$
 $x = -2, 7$
- $3x^2 - 16x - 12 = 0$
 $(x - 6)(3x + 2) = 0$
 $x = 6, -\frac{2}{3}$
- $x^2 - 16x + 63 = 0$
 $(x - 9)(x - 7) = 0$
 $x = 9, 7$