

Solving Quadratic Equations (H)

Name: _____

Date: _____

Solve each equation for x.

1. $x^2 + 2x - 15 = 0$

11. $4x^2 - 27x + 18 = 0$

2. $9x^2 + 47x + 10 = 0$

12. $7x^2 + 64x + 9 = 0$

3. $6x^2 - 17x - 3 = 0$

13. $8x^2 + 6x - 5 = 0$

4. $3x^2 - 10x + 7 = 0$

14. $8x^2 + 57x - 56 = 0$

5. $3x^2 - 14x - 24 = 0$

15. $6x^2 + 11x - 2 = 0$

6. $9x^2 - 25x + 14 = 0$

16. $5x^2 - 34x + 24 = 0$

7. $7x^2 - 15x + 8 = 0$

17. $3x^2 + 23x + 14 = 0$

8. $4x^2 + 32x + 63 = 0$

18. $9x^2 - 64 = 0$

9. $7x^2 + 31x - 20 = 0$

19. $4x^2 - 21x - 49 = 0$

10. $6x^2 + 37x + 56 = 0$

20. $4x^2 + 13x - 12 = 0$

Solving Quadratic Equations (H) Answers

Name: _____

Date: _____

Solve each equation for x.

- $x^2 + 2x - 15 = 0$
 $(x - 3)(x + 5) = 0$
 $x = 3, -5$
- $9x^2 + 47x + 10 = 0$
 $(9x + 2)(x + 5) = 0$
 $x = -\frac{2}{9}, -5$
- $6x^2 - 17x - 3 = 0$
 $(6x + 1)(x - 3) = 0$
 $x = -\frac{1}{6}, 3$
- $3x^2 - 10x + 7 = 0$
 $(x - 1)(3x - 7) = 0$
 $x = 1, 2\frac{1}{3}$
- $3x^2 - 14x - 24 = 0$
 $(x - 6)(3x + 4) = 0$
 $x = 6, -1\frac{1}{3}$
- $9x^2 - 25x + 14 = 0$
 $(x - 2)(9x - 7) = 0$
 $x = 2, \frac{7}{9}$
- $7x^2 - 15x + 8 = 0$
 $(x - 1)(7x - 8) = 0$
 $x = 1, 1\frac{1}{7}$
- $4x^2 + 32x + 63 = 0$
 $(2x + 7)(2x + 9) = 0$
 $x = -3\frac{1}{2}, -4\frac{1}{2}$
- $7x^2 + 31x - 20 = 0$
 $(x + 5)(7x - 4) = 0$
 $x = -5, \frac{4}{7}$
- $6x^2 + 37x + 56 = 0$
 $(2x + 7)(3x + 8) = 0$
 $x = -3\frac{1}{2}, -2\frac{2}{3}$
- $4x^2 - 27x + 18 = 0$
 $(x - 6)(4x - 3) = 0$
 $x = 6, \frac{3}{4}$
- $7x^2 + 64x + 9 = 0$
 $(7x + 1)(x + 9) = 0$
 $x = -\frac{1}{7}, -9$
- $8x^2 + 6x - 5 = 0$
 $(2x - 1)(4x + 5) = 0$
 $x = \frac{1}{2}, -1\frac{1}{4}$
- $8x^2 + 57x - 56 = 0$
 $(8x - 7)(x + 8) = 0$
 $x = \frac{7}{8}, -8$
- $6x^2 + 11x - 2 = 0$
 $(x + 2)(6x - 1) = 0$
 $x = -2, \frac{1}{6}$
- $5x^2 - 34x + 24 = 0$
 $(x - 6)(5x - 4) = 0$
 $x = 6, \frac{4}{5}$
- $3x^2 + 23x + 14 = 0$
 $(x + 7)(3x + 2) = 0$
 $x = -7, -\frac{2}{3}$
- $9x^2 - 64 = 0$
 $(3x + 8)(3x - 8) = 0$
 $x = -2\frac{2}{3}, 2\frac{2}{3}$
- $4x^2 - 21x - 49 = 0$
 $(4x + 7)(x - 7) = 0$
 $x = -1\frac{3}{4}, 7$
- $4x^2 + 13x - 12 = 0$
 $(x + 4)(4x - 3) = 0$
 $x = -4, \frac{3}{4}$