

Solving Quadratic Equations (G)

Name: _____

Date: _____

Solve each equation for x.

1. $20x^2 - 15x - 50 = 0$

11. $-10x^2 + 105x - 135 = 0$

2. $20x^2 - 105x + 25 = 0$

12. $-6x^2 - 46x + 16 = 0$

3. $9x^2 + 6x - 3 = 0$

13. $3x^2 - 15x + 12 = 0$

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

14. $-16x^2 - 76x - 84 = 0$

5. $-9x^2 + 48x + 192 = 0$

15. $-12x^2 - 39x + 105 = 0$

6. $-10x^2 - 65x + 35 = 0$

16. $12x^2 + 76x + 24 = 0$

7. $5x^2 - 10x - 175 = 0$

17. $3x^2 - 18x - 48 = 0$

8. $-8x^2 + 4x + 24 = 0$

18. $12x^2 + 36x - 81 = 0$

9. $-4x^2 + 20x - 24 = 0$

19. $-10x^2 - 55x - 75 = 0$

10. $5x^2 - 5x - 210 = 0$

20. $-10x^2 - 5x + 30 = 0$

Solving Quadratic Equations (G) Answers

Name: _____

Date: _____

Solve each equation for x.

- $20x^2 - 15x - 50 = 0$
 $5(4x + 5)(x - 2) = 0$
 $x = -1\frac{1}{4}, 2$
- $20x^2 - 105x + 25 = 0$
 $5(x - 5)(4x - 1) = 0$
 $x = 5, \frac{1}{4}$
- $9x^2 + 6x - 3 = 0$
 $3(3x - 1)(x + 1) = 0$
 $x = \frac{1}{3}, -1$
- $9x^2 + 12x - 12 = 0$
 $3(3x - 2)(x + 2) = 0$
 $x = \frac{2}{3}, -2$
- $-9x^2 + 48x + 192 = 0$
 $-3(3x + 8)(x - 8) = 0$
 $x = -2\frac{2}{3}, 8$
- $-10x^2 - 65x + 35 = 0$
 $-5(2x - 1)(x + 7) = 0$
 $x = \frac{1}{2}, -7$
- $5x^2 - 10x - 175 = 0$
 $5(x - 7)(x + 5) = 0$
 $x = 7, -5$
- $-8x^2 + 4x + 24 = 0$
 $-4(x - 2)(2x + 3) = 0$
 $x = 2, -1\frac{1}{2}$
- $-4x^2 + 20x - 24 = 0$
 $-4(x - 2)(x - 3) = 0$
 $x = 2, 3$
- $5x^2 - 5x - 210 = 0$
 $5(x + 6)(x - 7) = 0$
 $x = -6, 7$
- $-10x^2 + 105x - 135 = 0$
 $-5(x - 9)(2x - 3) = 0$
 $x = 9, 1\frac{1}{2}$
- $-6x^2 - 46x + 16 = 0$
 $-2(3x - 1)(x + 8) = 0$
 $x = \frac{1}{3}, -8$
- $3x^2 - 15x + 12 = 0$
 $3(x - 4)(x - 1) = 0$
 $x = 4, 1$
- $-16x^2 - 76x - 84 = 0$
 $-4(x + 3)(4x + 7) = 0$
 $x = -3, -1\frac{3}{4}$
- $-12x^2 - 39x + 105 = 0$
 $-3(4x - 7)(x + 5) = 0$
 $x = 1\frac{3}{4}, -5$
- $12x^2 + 76x + 24 = 0$
 $4(x + 6)(3x + 1) = 0$
 $x = -6, -\frac{1}{3}$
- $3x^2 - 18x - 48 = 0$
 $3(x - 8)(x + 2) = 0$
 $x = 8, -2$
- $12x^2 + 36x - 81 = 0$
 $3(2x + 9)(2x - 3) = 0$
 $x = -4\frac{1}{2}, 1\frac{1}{2}$
- $-10x^2 - 55x - 75 = 0$
 $-5(x + 3)(2x + 5) = 0$
 $x = -3, -2\frac{1}{2}$
- $-10x^2 - 5x + 30 = 0$
 $-5(x + 2)(2x - 3) = 0$
 $x = -2, 1\frac{1}{2}$