

Solving Quadratic Equations (G)

Name: _____

Date: _____

Solve each equation for x.

1. $4x^2 - 37x + 40 = 0$

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

2. $8x^2 + 49x - 49 = 0$

12. $7x^2 - 20x + 12 = 0$

3. $4x^2 + 9x + 5 = 0$

13. $5x^2 - 18x + 9 = 0$

4. $4x^2 - 4x - 35 = 0$

14. $8x^2 + 7x - 1 = 0$

5. $5x^2 - 39x + 28 = 0$

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

6. $4x^2 + 4x - 15 = 0$

16. $6x^2 - 7x + 1 = 0$

7. $8x^2 - 14x - 15 = 0$

17. $6x^2 + 41x - 7 = 0$

8. $4x^2 + 8x - 21 = 0$

18. $2x^2 + 5x - 42 = 0$

9. $9x^2 + 27x + 8 = 0$

19. $8x^2 - 30x - 27 = 0$

10. $5x^2 + 18x + 9 = 0$

20. $7x^2 - 71x + 72 = 0$

Solving Quadratic Equations (G) Answers

Name: _____

Date: _____

Solve each equation for x.

- $4x^2 - 37x + 40 = 0$
 $(x - 8)(4x - 5) = 0$
 $x = 8, 1\frac{1}{4}$
- $8x^2 + 49x - 49 = 0$
 $(x + 7)(8x - 7) = 0$
 $x = -7, \frac{7}{8}$
- $4x^2 + 9x + 5 = 0$
 $(4x + 5)(x + 1) = 0$
 $x = -1\frac{1}{4}, -1$
- $4x^2 - 4x - 35 = 0$
 $(2x - 7)(2x + 5) = 0$
 $x = 3\frac{1}{2}, -2\frac{1}{2}$
- $5x^2 - 39x + 28 = 0$
 $(x - 7)(5x - 4) = 0$
 $x = 7, \frac{4}{5}$
- $4x^2 + 4x - 15 = 0$
 $(2x + 5)(2x - 3) = 0$
 $x = -2\frac{1}{2}, 1\frac{1}{2}$
- $8x^2 - 14x - 15 = 0$
 $(2x - 5)(4x + 3) = 0$
 $x = 2\frac{1}{2}, -\frac{3}{4}$
- $4x^2 + 8x - 21 = 0$
 $(2x + 7)(2x - 3) = 0$
 $x = -3\frac{1}{2}, 1\frac{1}{2}$
- $9x^2 + 27x + 8 = 0$
 $(3x + 8)(3x + 1) = 0$
 $x = -2\frac{2}{3}, -\frac{1}{3}$
- $5x^2 + 18x + 9 = 0$
 $(x + 3)(5x + 3) = 0$
 $x = -3, -\frac{3}{5}$
- $x^2 - 11x + 18 = 0$
 $(x - 9)(x - 2) = 0$
 $x = 9, 2$
- $7x^2 - 20x + 12 = 0$
 $(7x - 6)(x - 2) = 0$
 $x = \frac{6}{7}, 2$
- $5x^2 - 18x + 9 = 0$
 $(5x - 3)(x - 3) = 0$
 $x = \frac{3}{5}, 3$
- $8x^2 + 7x - 1 = 0$
 $(x + 1)(8x - 1) = 0$
 $x = -1, \frac{1}{8}$
- $2x^2 + 15x - 8 = 0$
 $(2x - 1)(x + 8) = 0$
 $x = \frac{1}{2}, -8$
- $6x^2 - 7x + 1 = 0$
 $(6x - 1)(x - 1) = 0$
 $x = \frac{1}{6}, 1$
- $6x^2 + 41x - 7 = 0$
 $(6x - 1)(x + 7) = 0$
 $x = \frac{1}{6}, -7$
- $2x^2 + 5x - 42 = 0$
 $(2x - 7)(x + 6) = 0$
 $x = 3\frac{1}{2}, -6$
- $8x^2 - 30x - 27 = 0$
 $(4x + 3)(2x - 9) = 0$
 $x = -\frac{3}{4}, 4\frac{1}{2}$
- $7x^2 - 71x + 72 = 0$
 $(7x - 8)(x - 9) = 0$
 $x = 1\frac{1}{7}, 9$