

Solving Quadratic Equations (C)

Name: _____

Date: _____

Solve each equation for x.

1. $49x^2 - 4 = 0$

11. $36x^2 + 53x - 63 = 0$

2. $54x^2 + 93x + 40 = 0$

12. $7x^2 + 67x + 36 = 0$

3. $36x^2 - 25x + 4 = 0$

13. $12x^2 - 23x + 5 = 0$

4. $8x^2 + 38x + 35 = 0$

14. $28x^2 + 87x + 54 = 0$

5. $27x^2 - 21x + 4 = 0$

15. $54x^2 - 39x - 5 = 0$

6. $7x^2 - 45x - 28 = 0$

16. $63x^2 + 20x - 32 = 0$

7. $6x^2 + 5x - 1 = 0$

17. $2x^2 - 7x - 15 = 0$

8. $32x^2 + 60x + 7 = 0$

18. $4x^2 + 21x - 18 = 0$

9. $72x^2 + 85x + 25 = 0$

19. $x^2 + 6x + 8 = 0$

10. $27x^2 + 66x - 16 = 0$

20. $32x^2 - 12x - 9 = 0$

Solving Quadratic Equations (C) Answers

Name: _____

Date: _____

Solve each equation for x.

- $49x^2 - 4 = 0$
 $(7x - 2)(7x + 2) = 0$
 $x = \frac{2}{7}, -\frac{2}{7}$
- $54x^2 + 93x + 40 = 0$
 $(6x + 5)(9x + 8) = 0$
 $x = -\frac{5}{6}, -\frac{8}{9}$
- $36x^2 - 25x + 4 = 0$
 $(4x - 1)(9x - 4) = 0$
 $x = \frac{1}{4}, \frac{4}{9}$
- $8x^2 + 38x + 35 = 0$
 $(4x + 5)(2x + 7) = 0$
 $x = -1\frac{1}{4}, -3\frac{1}{2}$
- $27x^2 - 21x + 4 = 0$
 $(9x - 4)(3x - 1) = 0$
 $x = \frac{4}{9}, \frac{1}{3}$
- $7x^2 - 45x - 28 = 0$
 $(7x + 4)(x - 7) = 0$
 $x = -\frac{4}{7}, 7$
- $6x^2 + 5x - 1 = 0$
 $(x + 1)(6x - 1) = 0$
 $x = -1, \frac{1}{6}$
- $32x^2 + 60x + 7 = 0$
 $(8x + 1)(4x + 7) = 0$
 $x = -\frac{1}{8}, -1\frac{3}{4}$
- $72x^2 + 85x + 25 = 0$
 $(8x + 5)(9x + 5) = 0$
 $x = -\frac{5}{8}, -\frac{5}{9}$
- $27x^2 + 66x - 16 = 0$
 $(9x - 2)(3x + 8) = 0$
 $x = \frac{2}{9}, -2\frac{2}{3}$
- $36x^2 + 53x - 63 = 0$
 $(4x + 9)(9x - 7) = 0$
 $x = -2\frac{1}{4}, \frac{7}{9}$
- $7x^2 + 67x + 36 = 0$
 $(x + 9)(7x + 4) = 0$
 $x = -9, -\frac{4}{7}$
- $12x^2 - 23x + 5 = 0$
 $(4x - 1)(3x - 5) = 0$
 $x = \frac{1}{4}, 1\frac{2}{3}$
- $28x^2 + 87x + 54 = 0$
 $(4x + 9)(7x + 6) = 0$
 $x = -2\frac{1}{4}, -\frac{6}{7}$
- $54x^2 - 39x - 5 = 0$
 $(9x + 1)(6x - 5) = 0$
 $x = -\frac{1}{9}, \frac{5}{6}$
- $63x^2 + 20x - 32 = 0$
 $(7x - 4)(9x + 8) = 0$
 $x = \frac{4}{7}, -\frac{8}{9}$
- $2x^2 - 7x - 15 = 0$
 $(x - 5)(2x + 3) = 0$
 $x = 5, -1\frac{1}{2}$
- $4x^2 + 21x - 18 = 0$
 $(x + 6)(4x - 3) = 0$
 $x = -6, \frac{3}{4}$
- $x^2 + 6x + 8 = 0$
 $(x + 4)(x + 2) = 0$
 $x = -4, -2$
- $32x^2 - 12x - 9 = 0$
 $(4x - 3)(8x + 3) = 0$
 $x = \frac{3}{4}, -\frac{3}{8}$