

Solving Quadratic Equations (C)

Name: _____

Date: _____

Solve each equation for x.

1. $8x^2 + 53x + 30 = 0$

11. $8x^2 - 21x - 9 = 0$

2. $8x^2 + 17x + 9 = 0$

12. $-5x^2 - 52x - 63 = 0$

3. $-8x^2 + 14x + 15 = 0$

13. $2x^2 + 25x + 63 = 0$

4. $-x^2 + 14x - 45 = 0$

14. $-2x^2 + 7x - 6 = 0$

5. $-6x^2 - 37x - 6 = 0$

15. $6x^2 + 35x + 49 = 0$

6. $8x^2 - 25x + 18 = 0$

16. $x^2 - 10x + 9 = 0$

7. $-7x^2 + 19x + 36 = 0$

17. $-9x^2 - 47x + 42 = 0$

8. $9x^2 - 14x + 5 = 0$

18. $9x^2 + 58x + 24 = 0$

9. $-9x^2 - 59x - 30 = 0$

19. $-8x^2 - 10x + 63 = 0$

10. $6x^2 + 61x + 63 = 0$

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

Solving Quadratic Equations (C) Answers

Name: _____

Date: _____

Solve each equation for x.

- $8x^2 + 53x + 30 = 0$
 $(x + 6)(8x + 5) = 0$
 $x = -6, -\frac{5}{8}$
- $8x^2 + 17x + 9 = 0$
 $(8x + 9)(x + 1) = 0$
 $x = -1\frac{1}{8}, -1$
- $-8x^2 + 14x + 15 = 0$
 $-(2x - 5)(4x + 3) = 0$
 $x = 2\frac{1}{2}, -\frac{3}{4}$
- $-x^2 + 14x - 45 = 0$
 $-(x - 9)(x - 5) = 0$
 $x = 9, 5$
- $-6x^2 - 37x - 6 = 0$
 $-(x + 6)(6x + 1) = 0$
 $x = -6, -\frac{1}{6}$
- $8x^2 - 25x + 18 = 0$
 $(x - 2)(8x - 9) = 0$
 $x = 2, 1\frac{1}{8}$
- $-7x^2 + 19x + 36 = 0$
 $-(7x + 9)(x - 4) = 0$
 $x = -1\frac{2}{7}, 4$
- $9x^2 - 14x + 5 = 0$
 $(x - 1)(9x - 5) = 0$
 $x = 1, \frac{5}{9}$
- $-9x^2 - 59x - 30 = 0$
 $-(x + 6)(9x + 5) = 0$
 $x = -6, -\frac{5}{9}$
- $6x^2 + 61x + 63 = 0$
 $(x + 9)(6x + 7) = 0$
 $x = -9, -1\frac{1}{6}$
- $8x^2 - 21x - 9 = 0$
 $(x - 3)(8x + 3) = 0$
 $x = 3, -\frac{3}{8}$
- $-5x^2 - 52x - 63 = 0$
 $-(5x + 7)(x + 9) = 0$
 $x = -1\frac{2}{5}, -9$
- $2x^2 + 25x + 63 = 0$
 $(2x + 7)(x + 9) = 0$
 $x = -3\frac{1}{2}, -9$
- $-2x^2 + 7x - 6 = 0$
 $-(x - 2)(2x - 3) = 0$
 $x = 2, 1\frac{1}{2}$
- $6x^2 + 35x + 49 = 0$
 $(3x + 7)(2x + 7) = 0$
 $x = -2\frac{1}{3}, -3\frac{1}{2}$
- $x^2 - 10x + 9 = 0$
 $(x - 1)(x - 9) = 0$
 $x = 1, 9$
- $-9x^2 - 47x + 42 = 0$
 $-(9x - 7)(x + 6) = 0$
 $x = \frac{7}{9}, -6$
- $9x^2 + 58x + 24 = 0$
 $(x + 6)(9x + 4) = 0$
 $x = -6, -\frac{4}{9}$
- $-8x^2 - 10x + 63 = 0$
 $-(4x - 9)(2x + 7) = 0$
 $x = 2\frac{1}{4}, -3\frac{1}{2}$
- $2x^2 - 9x + 7 = 0$
 $(x - 1)(2x - 7) = 0$
 $x = 1, 3\frac{1}{2}$