

Solving Quadratic Equations (B)

Name: _____

Date: _____

Solve each equation for x.

1. $49x^2 + 77x + 24 = 0$

11. $8x^2 - 41x + 36 = 0$

2. $-27x^2 + 3x + 4 = 0$

12. $-63x^2 - 16x + 64 = 0$

3. $-8x^2 - 38x - 9 = 0$

13. $-56x^2 - 93x - 27 = 0$

4. $-2x^2 - 9x + 35 = 0$

14. $-42x^2 - 41x - 5 = 0$

5. $21x^2 - 2x - 3 = 0$

15. $72x^2 + 13x - 15 = 0$

6. $-45x^2 + 28x + 49 = 0$

16. $7x^2 - 34x - 5 = 0$

7. $-9x^2 + 86x - 45 = 0$

17. $7x^2 - 52x - 32 = 0$

8. $-35x^2 + 82x - 48 = 0$

18. $12x^2 + 28x + 15 = 0$

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

19. $-24x^2 - 73x - 24 = 0$

10. $-28x^2 + 73x - 42 = 0$

20. $54x^2 - 15x + 1 = 0$

Solving Quadratic Equations (B) Answers

Name: _____

Date: _____

Solve each equation for x.

- $49x^2 + 77x + 24 = 0$
 $(7x + 3)(7x + 8) = 0$
 $x = -\frac{3}{7}, -1\frac{1}{7}$
- $-27x^2 + 3x + 4 = 0$
 $-(3x + 1)(9x - 4) = 0$
 $x = -\frac{1}{3}, \frac{4}{9}$
- $-8x^2 - 38x - 9 = 0$
 $-(2x + 9)(4x + 1) = 0$
 $x = -4\frac{1}{2}, -\frac{1}{4}$
- $-2x^2 - 9x + 35 = 0$
 $-(2x - 5)(x + 7) = 0$
 $x = 2\frac{1}{2}, -7$
- $21x^2 - 2x - 3 = 0$
 $(3x + 1)(7x - 3) = 0$
 $x = -\frac{1}{3}, \frac{3}{7}$
- $-45x^2 + 28x + 49 = 0$
 $-(9x + 7)(5x - 7) = 0$
 $x = -\frac{7}{9}, 1\frac{2}{5}$
- $-9x^2 + 86x - 45 = 0$
 $-(9x - 5)(x - 9) = 0$
 $x = \frac{5}{9}, 9$
- $-35x^2 + 82x - 48 = 0$
 $-(5x - 6)(7x - 8) = 0$
 $x = 1\frac{1}{5}, 1\frac{1}{7}$
- $-x^2 - 8x - 15 = 0$
 $-(x + 5)(x + 3) = 0$
 $x = -5, -3$
- $-28x^2 + 73x - 42 = 0$
 $-(7x - 6)(4x - 7) = 0$
 $x = \frac{6}{7}, 1\frac{3}{4}$
- $8x^2 - 41x + 36 = 0$
 $(8x - 9)(x - 4) = 0$
 $x = 1\frac{1}{8}, 4$
- $-63x^2 - 16x + 64 = 0$
 $-(7x + 8)(9x - 8) = 0$
 $x = -1\frac{1}{7}, \frac{8}{9}$
- $-56x^2 - 93x - 27 = 0$
 $-(7x + 9)(8x + 3) = 0$
 $x = -1\frac{2}{7}, -\frac{3}{8}$
- $-42x^2 - 41x - 5 = 0$
 $-(7x + 1)(6x + 5) = 0$
 $x = -\frac{1}{7}, -\frac{5}{6}$
- $72x^2 + 13x - 15 = 0$
 $(9x + 5)(8x - 3) = 0$
 $x = -\frac{5}{9}, \frac{3}{8}$
- $7x^2 - 34x - 5 = 0$
 $(x - 5)(7x + 1) = 0$
 $x = 5, -\frac{1}{7}$
- $7x^2 - 52x - 32 = 0$
 $(7x + 4)(x - 8) = 0$
 $x = -\frac{4}{7}, 8$
- $12x^2 + 28x + 15 = 0$
 $(6x + 5)(2x + 3) = 0$
 $x = -\frac{5}{6}, -1\frac{1}{2}$
- $-24x^2 - 73x - 24 = 0$
 $-(3x + 8)(8x + 3) = 0$
 $x = -2\frac{2}{3}, -\frac{3}{8}$
- $54x^2 - 15x + 1 = 0$
 $(9x - 1)(6x - 1) = 0$
 $x = \frac{1}{9}, \frac{1}{6}$