

Solving Quadratic Equations (A)

Name: _____

Date: _____

Solve each equation for x.

1. $9x^2 + 88x + 63 = 0$

11. $7x^2 + 10x - 8 = 0$

2. $81x^2 + 117x + 40 = 0$

12. $9x^2 - 18x + 5 = 0$

3. $10x^2 - 37x + 30 = 0$

13. $9x^2 + 23x - 12 = 0$

4. $12x^2 - 28x - 49 = 0$

14. $5x^2 - 7x + 2 = 0$

5. $27x^2 + 48x + 5 = 0$

15. $48x^2 - 82x + 35 = 0$

6. $4x^2 - 81 = 0$

16. $54x^2 - 21x - 20 = 0$

7. $24x^2 + 50x - 9 = 0$

17. $24x^2 + 49x + 15 = 0$

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

18. $36x^2 - 91x + 49 = 0$

9. $5x^2 + 12x + 7 = 0$

19. $54x^2 + 57x - 7 = 0$

10. $5x^2 - 9x + 4 = 0$

20. $40x^2 - 77x + 9 = 0$

Solving Quadratic Equations (A) Answers

Name: _____

Date: _____

Solve each equation for x.

- $9x^2 + 88x + 63 = 0$
 $(x + 9)(9x + 7) = 0$
 $x = -9, -\frac{7}{9}$
- $81x^2 + 117x + 40 = 0$
 $(9x + 8)(9x + 5) = 0$
 $x = -\frac{8}{9}, -\frac{5}{9}$
- $10x^2 - 37x + 30 = 0$
 $(5x - 6)(2x - 5) = 0$
 $x = 1\frac{1}{5}, 2\frac{1}{2}$
- $12x^2 - 28x - 49 = 0$
 $(2x - 7)(6x + 7) = 0$
 $x = 3\frac{1}{2}, -1\frac{1}{6}$
- $27x^2 + 48x + 5 = 0$
 $(3x + 5)(9x + 1) = 0$
 $x = -1\frac{2}{3}, -\frac{1}{9}$
- $4x^2 - 81 = 0$
 $(2x - 9)(2x + 9) = 0$
 $x = 4\frac{1}{2}, -4\frac{1}{2}$
- $24x^2 + 50x - 9 = 0$
 $(4x + 9)(6x - 1) = 0$
 $x = -2\frac{1}{4}, \frac{1}{6}$
- $8x^2 - 53x + 30 = 0$
 $(x - 6)(8x - 5) = 0$
 $x = 6, \frac{5}{8}$
- $5x^2 + 12x + 7 = 0$
 $(x + 1)(5x + 7) = 0$
 $x = -1, -1\frac{2}{5}$
- $5x^2 - 9x + 4 = 0$
 $(x - 1)(5x - 4) = 0$
 $x = 1, \frac{4}{5}$
- $7x^2 + 10x - 8 = 0$
 $(x + 2)(7x - 4) = 0$
 $x = -2, \frac{4}{7}$
- $9x^2 - 18x + 5 = 0$
 $(3x - 5)(3x - 1) = 0$
 $x = 1\frac{2}{3}, \frac{1}{3}$
- $9x^2 + 23x - 12 = 0$
 $(9x - 4)(x + 3) = 0$
 $x = \frac{4}{9}, -3$
- $5x^2 - 7x + 2 = 0$
 $(x - 1)(5x - 2) = 0$
 $x = 1, \frac{2}{5}$
- $48x^2 - 82x + 35 = 0$
 $(8x - 7)(6x - 5) = 0$
 $x = \frac{7}{8}, \frac{5}{6}$
- $54x^2 - 21x - 20 = 0$
 $(6x - 5)(9x + 4) = 0$
 $x = \frac{5}{6}, -\frac{4}{9}$
- $24x^2 + 49x + 15 = 0$
 $(3x + 5)(8x + 3) = 0$
 $x = -1\frac{2}{3}, -\frac{3}{8}$
- $36x^2 - 91x + 49 = 0$
 $(9x - 7)(4x - 7) = 0$
 $x = \frac{7}{9}, 1\frac{3}{4}$
- $54x^2 + 57x - 7 = 0$
 $(9x - 1)(6x + 7) = 0$
 $x = \frac{1}{9}, -1\frac{1}{6}$
- $40x^2 - 77x + 9 = 0$
 $(5x - 9)(8x - 1) = 0$
 $x = 1\frac{4}{5}, \frac{1}{8}$