

Solving Quadratic Equations (A)

Name: _____

Date: _____

Solve each equation for x.

1. $-64x^2 - 48x - 5 = 0$

11. $-5x^2 - 37x - 42 = 0$

2. $-9x^2 + 48x - 64 = 0$

12. $-16x^2 - 2x + 5 = 0$

3. $-64x^2 - 64x + 9 = 0$

13. $25x^2 - 5x - 2 = 0$

4. $8x^2 - 13x + 5 = 0$

14. $6x^2 - 59x + 45 = 0$

5. $-16x^2 - 62x + 45 = 0$

15. $-56x^2 + 111x - 54 = 0$

6. $-18x^2 + 13x + 21 = 0$

16. $9x^2 - 89x + 72 = 0$

7. $27x^2 + 78x + 35 = 0$

17. $48x^2 + 14x - 45 = 0$

8. $9x^2 - 27x + 14 = 0$

18. $-16x^2 + 38x + 5 = 0$

9. $42x^2 + 5x - 63 = 0$

19. $18x^2 - 27x - 35 = 0$

10. $36x^2 - 47x - 28 = 0$

20. $-9x^2 + 18x - 8 = 0$

Solving Quadratic Equations (A) Answers

Name: _____

Date: _____

Solve each equation for x.

- $-64x^2 - 48x - 5 = 0$
 $-(8x + 5)(8x + 1) = 0$
 $x = -\frac{5}{8}, -\frac{1}{8}$
- $-9x^2 + 48x - 64 = 0$
 $-(3x - 8)(3x - 8) = -(3x - 8)^2 = 0$
 $x = 2\frac{2}{3}$
- $-64x^2 - 64x + 9 = 0$
 $-(8x + 9)(8x - 1) = 0$
 $x = -1\frac{1}{8}, \frac{1}{8}$
- $8x^2 - 13x + 5 = 0$
 $(8x - 5)(x - 1) = 0$
 $x = \frac{5}{8}, 1$
- $-16x^2 - 62x + 45 = 0$
 $-(8x - 5)(2x + 9) = 0$
 $x = \frac{5}{8}, -4\frac{1}{2}$
- $-18x^2 + 13x + 21 = 0$
 $-(9x + 7)(2x - 3) = 0$
 $x = -\frac{7}{9}, 1\frac{1}{2}$
- $27x^2 + 78x + 35 = 0$
 $(3x + 7)(9x + 5) = 0$
 $x = -2\frac{1}{3}, -\frac{5}{9}$
- $9x^2 - 27x + 14 = 0$
 $(3x - 7)(3x - 2) = 0$
 $x = 2\frac{1}{3}, \frac{2}{3}$
- $42x^2 + 5x - 63 = 0$
 $(6x - 7)(7x + 9) = 0$
 $x = 1\frac{1}{6}, -1\frac{2}{7}$
- $36x^2 - 47x - 28 = 0$
 $(4x - 7)(9x + 4) = 0$
 $x = 1\frac{3}{4}, -\frac{4}{9}$
- $-5x^2 - 37x - 42 = 0$
 $-(x + 6)(5x + 7) = 0$
 $x = -6, -1\frac{2}{5}$
- $-16x^2 - 2x + 5 = 0$
 $-(2x - 1)(8x + 5) = 0$
 $x = \frac{1}{2}, -\frac{5}{8}$
- $25x^2 - 5x - 2 = 0$
 $(5x + 1)(5x - 2) = 0$
 $x = -\frac{1}{5}, \frac{2}{5}$
- $6x^2 - 59x + 45 = 0$
 $(6x - 5)(x - 9) = 0$
 $x = \frac{5}{6}, 9$
- $-56x^2 + 111x - 54 = 0$
 $-(7x - 6)(8x - 9) = 0$
 $x = \frac{6}{7}, 1\frac{1}{8}$
- $9x^2 - 89x + 72 = 0$
 $(x - 9)(9x - 8) = 0$
 $x = 9, \frac{8}{9}$
- $48x^2 + 14x - 45 = 0$
 $(6x - 5)(8x + 9) = 0$
 $x = \frac{5}{6}, -1\frac{1}{8}$
- $-16x^2 + 38x + 5 = 0$
 $-(8x + 1)(2x - 5) = 0$
 $x = -\frac{1}{8}, 2\frac{1}{2}$
- $18x^2 - 27x - 35 = 0$
 $(3x - 7)(6x + 5) = 0$
 $x = 2\frac{1}{3}, -\frac{5}{6}$
- $-9x^2 + 18x - 8 = 0$
 $-(3x - 4)(3x - 2) = 0$
 $x = 1\frac{1}{3}, \frac{2}{3}$