

Solving Quadratic Equations (E)

Name: _____

Date: _____

Solve each equation for x.

1. $15x^2 - 43x + 8 = 0$

11. $-4x^2 - 7x - 3 = 0$

2. $-6x^2 - 17x + 28 = 0$

12. $-32x^2 - 4x + 3 = 0$

3. $28x^2 + 27x - 10 = 0$

13. $48x^2 - 2x - 35 = 0$

4. $28x^2 + x - 45 = 0$

14. $7x^2 - 55x - 8 = 0$

5. $-16x^2 - 24x - 5 = 0$

15. $-6x^2 + 25x - 21 = 0$

6. $-5x^2 + 19x + 30 = 0$

16. $-28x^2 + 37x + 21 = 0$

7. $32x^2 - 4x - 1 = 0$

17. $8x^2 - 69x - 27 = 0$

8. $-3x^2 + 28x - 9 = 0$

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

9. $-16x^2 + 66x - 35 = 0$

19. $-72x^2 + 13x + 15 = 0$

10. $20x^2 + 9x - 18 = 0$

20. $30x^2 + 73x + 40 = 0$

Solving Quadratic Equations (E) Answers

Name: _____

Date: _____

Solve each equation for x.

- $15x^2 - 43x + 8 = 0$
 $(5x - 1)(3x - 8) = 0$
 $x = \frac{1}{5}, 2\frac{2}{3}$
- $-6x^2 - 17x + 28 = 0$
 $-(6x - 7)(x + 4) = 0$
 $x = 1\frac{1}{6}, -4$
- $28x^2 + 27x - 10 = 0$
 $(4x + 5)(7x - 2) = 0$
 $x = -1\frac{1}{4}, \frac{2}{7}$
- $28x^2 + x - 45 = 0$
 $(7x + 9)(4x - 5) = 0$
 $x = -1\frac{2}{7}, 1\frac{1}{4}$
- $-16x^2 - 24x - 5 = 0$
 $-(4x + 1)(4x + 5) = 0$
 $x = -\frac{1}{4}, -1\frac{1}{4}$
- $-5x^2 + 19x + 30 = 0$
 $-(x - 5)(5x + 6) = 0$
 $x = 5, -1\frac{1}{5}$
- $32x^2 - 4x - 1 = 0$
 $(4x - 1)(8x + 1) = 0$
 $x = \frac{1}{4}, -\frac{1}{8}$
- $-3x^2 + 28x - 9 = 0$
 $-(x - 9)(3x - 1) = 0$
 $x = 9, \frac{1}{3}$
- $-16x^2 + 66x - 35 = 0$
 $-(2x - 7)(8x - 5) = 0$
 $x = 3\frac{1}{2}, \frac{5}{8}$
- $20x^2 + 9x - 18 = 0$
 $(4x - 3)(5x + 6) = 0$
 $x = \frac{3}{4}, -1\frac{1}{5}$
- $-4x^2 - 7x - 3 = 0$
 $-(x + 1)(4x + 3) = 0$
 $x = -1, -\frac{3}{4}$
- $-32x^2 - 4x + 3 = 0$
 $-(4x - 1)(8x + 3) = 0$
 $x = \frac{1}{4}, -\frac{3}{8}$
- $48x^2 - 2x - 35 = 0$
 $(6x + 5)(8x - 7) = 0$
 $x = -\frac{5}{6}, \frac{7}{8}$
- $7x^2 - 55x - 8 = 0$
 $(7x + 1)(x - 8) = 0$
 $x = -\frac{1}{7}, 8$
- $-6x^2 + 25x - 21 = 0$
 $-(x - 3)(6x - 7) = 0$
 $x = 3, 1\frac{1}{6}$
- $-28x^2 + 37x + 21 = 0$
 $-(7x + 3)(4x - 7) = 0$
 $x = -\frac{3}{7}, 1\frac{3}{4}$
- $8x^2 - 69x - 27 = 0$
 $(x - 9)(8x + 3) = 0$
 $x = 9, -\frac{3}{8}$
- $-5x^2 - 9x + 18 = 0$
 $-(5x - 6)(x + 3) = 0$
 $x = 1\frac{1}{5}, -3$
- $-72x^2 + 13x + 15 = 0$
 $-(8x + 3)(9x - 5) = 0$
 $x = -\frac{3}{8}, \frac{5}{9}$
- $30x^2 + 73x + 40 = 0$
 $(5x + 8)(6x + 5) = 0$
 $x = -1\frac{3}{5}, -\frac{5}{6}$