

Solving Quadratic Equations (D)

Name: _____

Date: _____

Solve each equation for x.

1. $-18x^2 + 27x - 4 = 0$

11. $-8x^2 + 26x + 7 = 0$

2. $-48x^2 + 46x + 9 = 0$

12. $-12x^2 - 56x - 49 = 0$

3. $14x^2 + 17x + 5 = 0$

13. $-15x^2 + 22x + 9 = 0$

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

14. $-35x^2 + 23x + 72 = 0$

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

15. $-36x^2 - x + 21 = 0$

6. $-2x^2 + 3x + 20 = 0$

16. $36x^2 - 55x + 21 = 0$

7. $42x^2 - 19x - 45 = 0$

17. $-27x^2 + 3x + 10 = 0$

8. $-63x^2 + 26x + 5 = 0$

18. $63x^2 + 59x + 10 = 0$

9. $12x^2 - 4x - 5 = 0$

19. $-6x^2 + 19x - 14 = 0$

10. $9x^2 + 67x - 40 = 0$

20. $10x^2 + 9x - 7 = 0$

Solving Quadratic Equations (D) Answers

Name: _____

Date: _____

Solve each equation for x.

- $-18x^2 + 27x - 4 = 0$
 $-(6x - 1)(3x - 4) = 0$
 $x = \frac{1}{6}, 1\frac{1}{3}$
- $-48x^2 + 46x + 9 = 0$
 $-(6x + 1)(8x - 9) = 0$
 $x = -\frac{1}{6}, 1\frac{1}{8}$
- $14x^2 + 17x + 5 = 0$
 $(2x + 1)(7x + 5) = 0$
 $x = -\frac{1}{2}, -\frac{5}{7}$
- $-2x^2 + x + 45 = 0$
 $-(x - 5)(2x + 9) = 0$
 $x = 5, -4\frac{1}{2}$
- $30x^2 + 19x - 5 = 0$
 $(5x - 1)(6x + 5) = 0$
 $x = \frac{1}{5}, -\frac{5}{6}$
- $-2x^2 + 3x + 20 = 0$
 $-(2x + 5)(x - 4) = 0$
 $x = -2\frac{1}{2}, 4$
- $42x^2 - 19x - 45 = 0$
 $(6x + 5)(7x - 9) = 0$
 $x = -\frac{5}{6}, 1\frac{2}{7}$
- $-63x^2 + 26x + 5 = 0$
 $-(7x + 1)(9x - 5) = 0$
 $x = -\frac{1}{7}, \frac{5}{9}$
- $12x^2 - 4x - 5 = 0$
 $(6x - 5)(2x + 1) = 0$
 $x = \frac{5}{6}, -\frac{1}{2}$
- $9x^2 + 67x - 40 = 0$
 $(9x - 5)(x + 8) = 0$
 $x = \frac{5}{9}, -8$
- $-8x^2 + 26x + 7 = 0$
 $-(2x - 7)(4x + 1) = 0$
 $x = 3\frac{1}{2}, -\frac{1}{4}$
- $-12x^2 - 56x - 49 = 0$
 $-(6x + 7)(2x + 7) = 0$
 $x = -1\frac{1}{6}, -3\frac{1}{2}$
- $-15x^2 + 22x + 9 = 0$
 $-(5x - 9)(3x + 1) = 0$
 $x = 1\frac{4}{5}, -\frac{1}{3}$
- $-35x^2 + 23x + 72 = 0$
 $-(7x + 8)(5x - 9) = 0$
 $x = -1\frac{1}{7}, 1\frac{4}{5}$
- $-36x^2 - x + 21 = 0$
 $-(9x + 7)(4x - 3) = 0$
 $x = -\frac{7}{9}, \frac{3}{4}$
- $36x^2 - 55x + 21 = 0$
 $(4x - 3)(9x - 7) = 0$
 $x = \frac{3}{4}, \frac{7}{9}$
- $-27x^2 + 3x + 10 = 0$
 $-(3x - 2)(9x + 5) = 0$
 $x = \frac{2}{3}, -\frac{5}{9}$
- $63x^2 + 59x + 10 = 0$
 $(9x + 2)(7x + 5) = 0$
 $x = -\frac{2}{9}, -\frac{5}{7}$
- $-6x^2 + 19x - 14 = 0$
 $-(6x - 7)(x - 2) = 0$
 $x = 1\frac{1}{6}, 2$
- $10x^2 + 9x - 7 = 0$
 $(5x + 7)(2x - 1) = 0$
 $x = -1\frac{2}{5}, \frac{1}{2}$