

Solving Quadratic Equations (I)

Name: _____

Date: _____

Solve each equation for x.

1. $-4x^2 + 49 = 0$

11. $9x^2 + 61x + 42 = 0$

2. $-28x^2 - 3x + 40 = 0$

12. $-72x^2 + 49x - 5 = 0$

3. $6x^2 - 49x + 8 = 0$

13. $18x^2 + 29x - 40 = 0$

4. $30x^2 + x - 42 = 0$

14. $-81x^2 + 90x - 25 = 0$

5. $-12x^2 - 4x + 21 = 0$

15. $63x^2 + 11x - 2 = 0$

6. $-64x^2 + 32x + 21 = 0$

16. $-54x^2 + 21x + 5 = 0$

7. $48x^2 + 46x - 9 = 0$

17. $32x^2 + 36x - 35 = 0$

8. $-9x^2 - 32x + 16 = 0$

18. $12x^2 + 47x + 40 = 0$

9. $-24x^2 - x + 10 = 0$

19. $40x^2 - x - 6 = 0$

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

20. $5x^2 + 29x - 42 = 0$

Solving Quadratic Equations (I) Answers

Name: _____

Date: _____

Solve each equation for x.

- $-4x^2 + 49 = 0$
 $-(2x - 7)(2x + 7) = 0$
 $x = 3\frac{1}{2}, -3\frac{1}{2}$
- $-28x^2 - 3x + 40 = 0$
 $-(7x - 8)(4x + 5) = 0$
 $x = 1\frac{1}{7}, -1\frac{1}{4}$
- $6x^2 - 49x + 8 = 0$
 $(6x - 1)(x - 8) = 0$
 $x = \frac{1}{6}, 8$
- $30x^2 + x - 42 = 0$
 $(5x + 6)(6x - 7) = 0$
 $x = -1\frac{1}{5}, 1\frac{1}{6}$
- $-12x^2 - 4x + 21 = 0$
 $-(6x - 7)(2x + 3) = 0$
 $x = 1\frac{1}{6}, -1\frac{1}{2}$
- $-64x^2 + 32x + 21 = 0$
 $-(8x + 3)(8x - 7) = 0$
 $x = -\frac{3}{8}, \frac{7}{8}$
- $48x^2 + 46x - 9 = 0$
 $(8x + 9)(6x - 1) = 0$
 $x = -1\frac{1}{8}, \frac{1}{6}$
- $-9x^2 - 32x + 16 = 0$
 $-(x + 4)(9x - 4) = 0$
 $x = -4, \frac{4}{9}$
- $-24x^2 - x + 10 = 0$
 $-(3x + 2)(8x - 5) = 0$
 $x = -\frac{2}{3}, \frac{5}{8}$
- $x^2 + x - 30 = 0$
 $(x + 6)(x - 5) = 0$
 $x = -6, 5$
- $9x^2 + 61x + 42 = 0$
 $(9x + 7)(x + 6) = 0$
 $x = -\frac{7}{9}, -6$
- $-72x^2 + 49x - 5 = 0$
 $-(9x - 5)(8x - 1) = 0$
 $x = \frac{5}{9}, \frac{1}{8}$
- $18x^2 + 29x - 40 = 0$
 $(9x - 8)(2x + 5) = 0$
 $x = \frac{8}{9}, -2\frac{1}{2}$
- $-81x^2 + 90x - 25 = 0$
 $-(9x - 5)(9x - 5) = -(9x - 5)^2 = 0$
 $x = \frac{5}{9}$
- $63x^2 + 11x - 2 = 0$
 $(9x - 1)(7x + 2) = 0$
 $x = \frac{1}{9}, -\frac{2}{7}$
- $-54x^2 + 21x + 5 = 0$
 $-(6x + 1)(9x - 5) = 0$
 $x = -\frac{1}{6}, \frac{5}{9}$
- $32x^2 + 36x - 35 = 0$
 $(4x + 7)(8x - 5) = 0$
 $x = -1\frac{3}{4}, \frac{5}{8}$
- $12x^2 + 47x + 40 = 0$
 $(3x + 8)(4x + 5) = 0$
 $x = -2\frac{2}{3}, -1\frac{1}{4}$
- $40x^2 - x - 6 = 0$
 $(8x + 3)(5x - 2) = 0$
 $x = -\frac{3}{8}, \frac{2}{5}$
- $5x^2 + 29x - 42 = 0$
 $(x + 7)(5x - 6) = 0$
 $x = -7, 1\frac{1}{5}$