

Solving Quadratic Equations (I)

Name: _____

Date: _____

Solve each equation for x.

1. $4x^2 - 3x - 7 = 0$

11. $4x^2 - 9x + 5 = 0$

2. $4x^2 + 7x - 2 = 0$

12. $3x^2 + 17x - 28 = 0$

3. $4x^2 + 8x - 21 = 0$

13. $4x^2 + 8x - 45 = 0$

4. $3x^2 - 23x + 30 = 0$

14. $3x^2 - 28x + 32 = 0$

5. $x^2 - 11x + 24 = 0$

15. $4x^2 + 8x - 5 = 0$

6. $2x^2 + 5x - 42 = 0$

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

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

17. $4x^2 + 19x - 63 = 0$

8. $4x^2 + 29x + 7 = 0$

18. $3x^2 + 20x + 32 = 0$

9. $4x^2 + 4x - 3 = 0$

19. $x^2 - 11x + 18 = 0$

10. $2x^2 + 13x - 7 = 0$

20. $2x^2 - 7x + 5 = 0$

Solving Quadratic Equations (I) Answers

Name: _____

Date: _____

Solve each equation for x.

1. $4x^2 - 3x - 7 = 0$
 $(x + 1)(4x - 7) = 0$
 $x = -1, 1\frac{3}{4}$

2. $4x^2 + 7x - 2 = 0$
 $(4x - 1)(x + 2) = 0$
 $x = \frac{1}{4}, -2$

3. $4x^2 + 8x - 21 = 0$
 $(2x + 7)(2x - 3) = 0$
 $x = -3\frac{1}{2}, 1\frac{1}{2}$

4. $3x^2 - 23x + 30 = 0$
 $(x - 6)(3x - 5) = 0$
 $x = 6, 1\frac{2}{3}$

5. $x^2 - 11x + 24 = 0$
 $(x - 8)(x - 3) = 0$
 $x = 8, 3$

6. $2x^2 + 5x - 42 = 0$
 $(x + 6)(2x - 7) = 0$
 $x = -6, 3\frac{1}{2}$

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

8. $4x^2 + 29x + 7 = 0$
 $(x + 7)(4x + 1) = 0$
 $x = -7, -\frac{1}{4}$

9. $4x^2 + 4x - 3 = 0$
 $(2x + 3)(2x - 1) = 0$
 $x = -1\frac{1}{2}, \frac{1}{2}$

10. $2x^2 + 13x - 7 = 0$
 $(x + 7)(2x - 1) = 0$
 $x = -7, \frac{1}{2}$

11. $4x^2 - 9x + 5 = 0$
 $(4x - 5)(x - 1) = 0$
 $x = 1\frac{1}{4}, 1$

12. $3x^2 + 17x - 28 = 0$
 $(3x - 4)(x + 7) = 0$
 $x = 1\frac{1}{3}, -7$

13. $4x^2 + 8x - 45 = 0$
 $(2x - 5)(2x + 9) = 0$
 $x = 2\frac{1}{2}, -4\frac{1}{2}$

14. $3x^2 - 28x + 32 = 0$
 $(x - 8)(3x - 4) = 0$
 $x = 8, 1\frac{1}{3}$

15. $4x^2 + 8x - 5 = 0$
 $(2x - 1)(2x + 5) = 0$
 $x = \frac{1}{2}, -2\frac{1}{2}$

16. $x^2 - 4x - 45 = 0$
 $(x - 9)(x + 5) = 0$
 $x = 9, -5$

17. $4x^2 + 19x - 63 = 0$
 $(x + 7)(4x - 9) = 0$
 $x = -7, 2\frac{1}{4}$

18. $3x^2 + 20x + 32 = 0$
 $(3x + 8)(x + 4) = 0$
 $x = -2\frac{2}{3}, -4$

19. $x^2 - 11x + 18 = 0$
 $(x - 9)(x - 2) = 0$
 $x = 9, 2$

20. $2x^2 - 7x + 5 = 0$
 $(2x - 5)(x - 1) = 0$
 $x = 2\frac{1}{2}, 1$