

Solving Quadratic Equations (A)

Name: _____

Date: _____

Solve each equation for x.

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

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

2. $4x^2 - 15x + 9 = 0$

12. $5x^2 + 33x - 14 = 0$

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

13. $3x^2 - 11x - 42 = 0$

4. $4x^2 - 35x + 24 = 0$

14. $2x^2 - 7x + 6 = 0$

5. $4x^2 - 3x - 10 = 0$

15. $2x^2 - 9x - 5 = 0$

6. $2x^2 - 9x - 18 = 0$

16. $2x^2 + 7x + 3 = 0$

7. $2x^2 + 25x + 72 = 0$

17. $4x^2 + 28x + 49 = 0$

8. $4x^2 - 41x + 45 = 0$

18. $3x^2 + x - 10 = 0$

9. $5x^2 - 36x - 32 = 0$

19. $5x^2 + 42x + 49 = 0$

10. $4x^2 + 27x - 40 = 0$

20. $4x^2 + 31x + 21 = 0$

Solving Quadratic Equations (A) Answers

Name: _____

Date: _____

Solve each equation for x.

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

2. $4x^2 - 15x + 9 = 0$
 $(4x - 3)(x - 3) = 0$
 $x = \frac{3}{4}, 3$

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

4. $4x^2 - 35x + 24 = 0$
 $(4x - 3)(x - 8) = 0$
 $x = \frac{3}{4}, 8$

5. $4x^2 - 3x - 10 = 0$
 $(4x + 5)(x - 2) = 0$
 $x = -1\frac{1}{4}, 2$

6. $2x^2 - 9x - 18 = 0$
 $(2x + 3)(x - 6) = 0$
 $x = -1\frac{1}{2}, 6$

7. $2x^2 + 25x + 72 = 0$
 $(x + 8)(2x + 9) = 0$
 $x = -8, -4\frac{1}{2}$

8. $4x^2 - 41x + 45 = 0$
 $(4x - 5)(x - 9) = 0$
 $x = 1\frac{1}{4}, 9$

9. $5x^2 - 36x - 32 = 0$
 $(5x + 4)(x - 8) = 0$
 $x = -\frac{4}{5}, 8$

10. $4x^2 + 27x - 40 = 0$
 $(4x - 5)(x + 8) = 0$
 $x = 1\frac{1}{4}, -8$

11. $4x^2 + 9x - 9 = 0$
 $(4x - 3)(x + 3) = 0$
 $x = \frac{3}{4}, -3$

12. $5x^2 + 33x - 14 = 0$
 $(5x - 2)(x + 7) = 0$
 $x = \frac{2}{5}, -7$

13. $3x^2 - 11x - 42 = 0$
 $(x - 6)(3x + 7) = 0$
 $x = 6, -2\frac{1}{3}$

14. $2x^2 - 7x + 6 = 0$
 $(x - 2)(2x - 3) = 0$
 $x = 2, 1\frac{1}{2}$

15. $2x^2 - 9x - 5 = 0$
 $(2x + 1)(x - 5) = 0$
 $x = -\frac{1}{2}, 5$

16. $2x^2 + 7x + 3 = 0$
 $(2x + 1)(x + 3) = 0$
 $x = -\frac{1}{2}, -3$

17. $4x^2 + 28x + 49 = 0$
 $(2x + 7)(2x + 7) = (2x + 7)^2 = 0$
 $x = -3\frac{1}{2}$

18. $3x^2 + x - 10 = 0$
 $(3x - 5)(x + 2) = 0$
 $x = 1\frac{2}{3}, -2$

19. $5x^2 + 42x + 49 = 0$
 $(5x + 7)(x + 7) = 0$
 $x = -1\frac{2}{5}, -7$

20. $4x^2 + 31x + 21 = 0$
 $(x + 7)(4x + 3) = 0$
 $x = -7, -\frac{3}{4}$