

Solving Quadratic Equations (D)

Name: _____

Date: _____

Solve each equation for x.

1. $3x^2 - 19x + 20 = 0$

11. $3x^2 + 8x - 35 = 0$

2. $2x^2 + 13x + 20 = 0$

12. $3x^2 - 13x + 12 = 0$

3. $3x^2 - 14x - 24 = 0$

13. $2x^2 + 15x + 18 = 0$

4. $4x^2 - 13x + 3 = 0$

14. $2x^2 - 3x + 1 = 0$

5. $4x^2 + 4x - 35 = 0$

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

6. $3x^2 - 7x + 2 = 0$

16. $3x^2 - 17x + 10 = 0$

7. $4x^2 - 16x + 15 = 0$

17. $3x^2 - 10x + 7 = 0$

8. $2x^2 + 13x + 21 = 0$

18. $4x^2 - 23x + 28 = 0$

9. $2x^2 + 15x + 25 = 0$

19. $3x^2 - 14x - 5 = 0$

10. $4x^2 + 21x + 20 = 0$

20. $4x^2 - 9x - 28 = 0$

Solving Quadratic Equations (D) Answers

Name: _____

Date: _____

Solve each equation for x.

1. $3x^2 - 19x + 20 = 0$
 $(x - 5)(3x - 4) = 0$
 $x = 5, 1\frac{1}{3}$

2. $2x^2 + 13x + 20 = 0$
 $(x + 4)(2x + 5) = 0$
 $x = -4, -2\frac{1}{2}$

3. $3x^2 - 14x - 24 = 0$
 $(x - 6)(3x + 4) = 0$
 $x = 6, -1\frac{1}{3}$

4. $4x^2 - 13x + 3 = 0$
 $(4x - 1)(x - 3) = 0$
 $x = \frac{1}{4}, 3$

5. $4x^2 + 4x - 35 = 0$
 $(2x + 7)(2x - 5) = 0$
 $x = -3\frac{1}{2}, 2\frac{1}{2}$

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

7. $4x^2 - 16x + 15 = 0$
 $(2x - 5)(2x - 3) = 0$
 $x = 2\frac{1}{2}, 1\frac{1}{2}$

8. $2x^2 + 13x + 21 = 0$
 $(x + 3)(2x + 7) = 0$
 $x = -3, -3\frac{1}{2}$

9. $2x^2 + 15x + 25 = 0$
 $(2x + 5)(x + 5) = 0$
 $x = -2\frac{1}{2}, -5$

10. $4x^2 + 21x + 20 = 0$
 $(4x + 5)(x + 4) = 0$
 $x = -1\frac{1}{4}, -4$

11. $3x^2 + 8x - 35 = 0$
 $(3x - 7)(x + 5) = 0$
 $x = 2\frac{1}{3}, -5$

12. $3x^2 - 13x + 12 = 0$
 $(3x - 4)(x - 3) = 0$
 $x = 1\frac{1}{3}, 3$

13. $2x^2 + 15x + 18 = 0$
 $(2x + 3)(x + 6) = 0$
 $x = -1\frac{1}{2}, -6$

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

15. $x^2 + 3x - 4 = 0$
 $(x + 4)(x - 1) = 0$
 $x = -4, 1$

16. $3x^2 - 17x + 10 = 0$
 $(3x - 2)(x - 5) = 0$
 $x = \frac{2}{3}, 5$

17. $3x^2 - 10x + 7 = 0$
 $(3x - 7)(x - 1) = 0$
 $x = 2\frac{1}{3}, 1$

18. $4x^2 - 23x + 28 = 0$
 $(4x - 7)(x - 4) = 0$
 $x = 1\frac{3}{4}, 4$

19. $3x^2 - 14x - 5 = 0$
 $(3x + 1)(x - 5) = 0$
 $x = -\frac{1}{3}, 5$

20. $4x^2 - 9x - 28 = 0$
 $(x - 4)(4x + 7) = 0$
 $x = 4, -1\frac{3}{4}$