Solving Quadratic Equations (D)

Name: _____ Date: _____

Solve each equation for x.

1. $2x^2 - 13x + 6 = 0$
2. $3x^2 - 2x - 5 = 0$
3. $4x^2 + 15x + 14 = 0$
4. $2x^2 + 13x + 18 = 0$
5. $4x^2 - 11x - 45 = 0$
6. $4x^2 - 16x + 7 = 0$
7. $x^2 + 3x - 10 = 0$
8. $4x^2 + 37x + 40 = 0$
9. $4x^2 + 25x - 56 = 0$
10. $4x^2 + 27x - 7 = 0$
11. $5x^2 - 2x - 16 = 0$
12. $3x^2 - 11x - 4 = 0$
13. $4x^2 - 11x + 6 = 0$
14. $4x^2 + 23x - 72 = 0$
15. $3x^2 + 7x - 6 = 0$
16. $3x^2 + 4x - 15 = 0$
17. $3x^2 + 19x + 20 = 0$
18. $5x^2 + 32x + 35 = 0$
19. $2x^2 - 7x - 4 = 0$
20. $5x^2 + 44x + 32 = 0$

Solving Quadratic Equations (D) Answers

Name: _____ Date: _____

Solve each equation for x.

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

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

3. $4x^2 + 15x + 14 = 0$
   $(4x + 7)(x + 2) = 0$
   $x = -1\frac{3}{4}, -2$

4. $2x^2 + 13x + 18 = 0$
   $(2x + 9)(x + 2) = 0$
   $x = -4\frac{1}{2}, -2$

5. $4x^2 - 11x - 45 = 0$
   $(x - 5)(4x + 9) = 0$
   $x = 5, -2\frac{1}{4}$

6. $4x^2 - 16x + 7 = 0$
   $(2x - 1)(2x - 7) = 0$
   $x = \frac{1}{2}, 3\frac{1}{2}$

7. $x^2 + 3x - 10 = 0$
   $(x + 5)(x - 2) = 0$
   $x = -5, 2$

8. $4x^2 + 37x + 40 = 0$
   $(4x + 5)(x + 8) = 0$
   $x = -1\frac{1}{4}, -8$

9. $4x^2 + 25x - 56 = 0$
   $(x + 8)(4x - 7) = 0$
   $x = -8, 1\frac{3}{4}$

10. $4x^2 + 27x - 7 = 0$
    $(x + 7)(4x - 1) = 0$
    $x = -7, \frac{1}{4}$

11. $5x^2 - 2x - 16 = 0$
    $(5x + 8)(x - 2) = 0$
    $x = -1\frac{3}{5}, 2$

12. $3x^2 - 11x - 4 = 0$
    $(3x + 1)(x - 4) = 0$
    $x = -\frac{1}{3}, 4$

13. $4x^2 - 11x + 6 = 0$
    $(4x - 3)(x - 2) = 0$
    $x = \frac{3}{4}, 2$

14. $4x^2 + 23x - 72 = 0$
    $(4x - 9)(x + 8) = 0$
    $x = 2\frac{1}{4}, -8$

15. $3x^2 + 7x - 6 = 0$
    $(3x - 2)(x + 3) = 0$
    $x = \frac{2}{3}, -3$

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

17. $3x^2 + 19x + 20 = 0$
    $(3x + 4)(x + 5) = 0$
    $x = -1\frac{1}{3}, -5$

18. $5x^2 + 32x + 35 = 0$
    $(5x + 7)(x + 5) = 0$
    $x = -1\frac{2}{5}, -5$

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

20. $5x^2 + 44x + 32 = 0$
    $(5x + 4)(x + 8) = 0$
    $x = -\frac{4}{5}, -8$