

Solving Quadratic Equations (B)

Name: _____

Date: _____

Solve each equation for x.

1. $-2x^2 - 10x - 12 = 0$

11. $3x^2 + 12x - 135 = 0$

2. $5x^2 - 60x + 135 = 0$

12. $5x^2 + 70x + 225 = 0$

3. $5x^2 + 35x - 40 = 0$

13. $2x^2 - 32x + 126 = 0$

4. $-3x^2 - 33x - 84 = 0$

14. $-3x^2 - 3x + 216 = 0$

5. $-3x^2 - 51x - 216 = 0$

15. $-5x^2 - 30x + 80 = 0$

6. $5x^2 + 15x - 140 = 0$

16. $4x^2 + 4x - 24 = 0$

7. $-4x^2 + 4x + 120 = 0$

17. $5x^2 + 20x - 225 = 0$

8. $-3x^2 + 9x + 162 = 0$

18. $-3x^2 - 36x - 96 = 0$

9. $-5x^2 + 75x - 280 = 0$

19. $-5x^2 - 10x + 315 = 0$

10. $5x^2 - 5x - 100 = 0$

20. $5x^2 + 65x + 180 = 0$

Solving Quadratic Equations (B) Answers

Name: _____

Date: _____

Solve each equation for x.

1. $-2x^2 - 10x - 12 = 0$
 $-2(x + 3)(x + 2) = 0$
 $x = -3, -2$

2. $5x^2 - 60x + 135 = 0$
 $5(x - 9)(x - 3) = 0$
 $x = 9, 3$

3. $5x^2 + 35x - 40 = 0$
 $5(x - 1)(x + 8) = 0$
 $x = 1, -8$

4. $-3x^2 - 33x - 84 = 0$
 $-3(x + 7)(x + 4) = 0$
 $x = -7, -4$

5. $-3x^2 - 51x - 216 = 0$
 $-3(x + 9)(x + 8) = 0$
 $x = -9, -8$

6. $5x^2 + 15x - 140 = 0$
 $5(x + 7)(x - 4) = 0$
 $x = -7, 4$

7. $-4x^2 + 4x + 120 = 0$
 $-4(x - 6)(x + 5) = 0$
 $x = 6, -5$

8. $-3x^2 + 9x + 162 = 0$
 $-3(x - 9)(x + 6) = 0$
 $x = 9, -6$

9. $-5x^2 + 75x - 280 = 0$
 $-5(x - 8)(x - 7) = 0$
 $x = 8, 7$

10. $5x^2 - 5x - 100 = 0$
 $5(x - 5)(x + 4) = 0$
 $x = 5, -4$

11. $3x^2 + 12x - 135 = 0$
 $3(x + 9)(x - 5) = 0$
 $x = -9, 5$

12. $5x^2 + 70x + 225 = 0$
 $5(x + 5)(x + 9) = 0$
 $x = -5, -9$

13. $2x^2 - 32x + 126 = 0$
 $2(x - 7)(x - 9) = 0$
 $x = 7, 9$

14. $-3x^2 - 3x + 216 = 0$
 $-3(x + 9)(x - 8) = 0$
 $x = -9, 8$

15. $-5x^2 - 30x + 80 = 0$
 $-5(x - 2)(x + 8) = 0$
 $x = 2, -8$

16. $4x^2 + 4x - 24 = 0$
 $4(x - 2)(x + 3) = 0$
 $x = 2, -3$

17. $5x^2 + 20x - 225 = 0$
 $5(x + 9)(x - 5) = 0$
 $x = -9, 5$

18. $-3x^2 - 36x - 96 = 0$
 $-3(x + 8)(x + 4) = 0$
 $x = -8, -4$

19. $-5x^2 - 10x + 315 = 0$
 $-5(x + 9)(x - 7) = 0$
 $x = -9, 7$

20. $5x^2 + 65x + 180 = 0$
 $5(x + 4)(x + 9) = 0$
 $x = -4, -9$