

Solving Quadratic Equations (B)

Name: _____

Date: _____

Solve each equation for x.

1. $-3x^2 + 26x - 48 = 0$

11. $-4x^2 - 27x - 18 = 0$

2. $8x^2 + 18x - 35 = 0$

12. $-6x^2 - 31x - 40 = 0$

3. $9x^2 + 77x - 36 = 0$

13. $7x^2 + 45x - 28 = 0$

4. $-8x^2 + 71x + 9 = 0$

14. $-7x^2 + 55x - 42 = 0$

5. $6x^2 - 37x + 56 = 0$

15. $-9x^2 + 59x + 28 = 0$

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

16. $7x^2 - 52x - 32 = 0$

7. $8x^2 + 2x - 15 = 0$

17. $7x^2 - 69x + 54 = 0$

8. $3x^2 - 20x - 32 = 0$

18. $-8x^2 - 7x + 1 = 0$

9. $-9x^2 + 30x - 25 = 0$

19. $-3x^2 - 19x + 40 = 0$

10. $5x^2 - 6x - 27 = 0$

20. $6x^2 + 35x + 25 = 0$

Solving Quadratic Equations (B) Answers

Name: _____

Date: _____

Solve each equation for x.

- $-3x^2 + 26x - 48 = 0$
 $-(x - 6)(3x - 8) = 0$
 $x = 6, 2\frac{2}{3}$
- $8x^2 + 18x - 35 = 0$
 $(4x - 5)(2x + 7) = 0$
 $x = 1\frac{1}{4}, -3\frac{1}{2}$
- $9x^2 + 77x - 36 = 0$
 $(9x - 4)(x + 9) = 0$
 $x = \frac{4}{9}, -9$
- $-8x^2 + 71x + 9 = 0$
 $-(x - 9)(8x + 1) = 0$
 $x = 9, -\frac{1}{8}$
- $6x^2 - 37x + 56 = 0$
 $(2x - 7)(3x - 8) = 0$
 $x = 3\frac{1}{2}, 2\frac{2}{3}$
- $-9x^2 - 9x - 2 = 0$
 $-(3x + 1)(3x + 2) = 0$
 $x = -\frac{1}{3}, -\frac{2}{3}$
- $8x^2 + 2x - 15 = 0$
 $(4x - 5)(2x + 3) = 0$
 $x = 1\frac{1}{4}, -1\frac{1}{2}$
- $3x^2 - 20x - 32 = 0$
 $(x - 8)(3x + 4) = 0$
 $x = 8, -1\frac{1}{3}$
- $-9x^2 + 30x - 25 = 0$
 $-(3x - 5)(3x - 5) = -(3x - 5)^2 = 0$
 $x = 1\frac{2}{3}$
- $5x^2 - 6x - 27 = 0$
 $(5x + 9)(x - 3) = 0$
 $x = -1\frac{4}{5}, 3$
- $-4x^2 - 27x - 18 = 0$
 $-(x + 6)(4x + 3) = 0$
 $x = -6, -\frac{3}{4}$
- $-6x^2 - 31x - 40 = 0$
 $-(2x + 5)(3x + 8) = 0$
 $x = -2\frac{1}{2}, -2\frac{2}{3}$
- $7x^2 + 45x - 28 = 0$
 $(x + 7)(7x - 4) = 0$
 $x = -7, \frac{4}{7}$
- $-7x^2 + 55x - 42 = 0$
 $-(x - 7)(7x - 6) = 0$
 $x = 7, \frac{6}{7}$
- $-9x^2 + 59x + 28 = 0$
 $-(x - 7)(9x + 4) = 0$
 $x = 7, -\frac{4}{9}$
- $7x^2 - 52x - 32 = 0$
 $(7x + 4)(x - 8) = 0$
 $x = -\frac{4}{7}, 8$
- $7x^2 - 69x + 54 = 0$
 $(7x - 6)(x - 9) = 0$
 $x = \frac{6}{7}, 9$
- $-8x^2 - 7x + 1 = 0$
 $-(x + 1)(8x - 1) = 0$
 $x = -1, \frac{1}{8}$
- $-3x^2 - 19x + 40 = 0$
 $-(x + 8)(3x - 5) = 0$
 $x = -8, 1\frac{2}{3}$
- $6x^2 + 35x + 25 = 0$
 $(x + 5)(6x + 5) = 0$
 $x = -5, -\frac{5}{6}$