

Solving Quadratic Equations (B)

Name: _____

Date: _____

Solve each equation for x.

1. $-40x^2 + 2x + 2 = 0$

11. $40x^2 + 58x - 72 = 0$

2. $-120x^2 + 236x - 36 = 0$

12. $48x^2 + 96x - 27 = 0$

3. $30x^2 + 145x + 140 = 0$

13. $56x^2 + 46x - 30 = 0$

4. $30x^2 + 25x - 30 = 0$

14. $16x^2 - 138x + 80 = 0$

5. $48x^2 - 124x + 70 = 0$

15. $48x^2 - 92x + 14 = 0$

6. $324x^2 - 108x - 112 = 0$

16. $-140x^2 + 15x + 90 = 0$

7. $-48x^2 + 124x - 80 = 0$

17. $16x^2 + 36x - 36 = 0$

8. $225x^2 + 230x - 315 = 0$

18. $-90x^2 + 475x - 315 = 0$

9. $288x^2 - 220x - 32 = 0$

19. $96x^2 + 332x + 252 = 0$

10. $120x^2 - 85x - 100 = 0$

20. $-25x^2 - 115x - 60 = 0$

Solving Quadratic Equations (B) Answers

Name: _____

Date: _____

Solve each equation for x.

- $-40x^2 + 2x + 2 = 0$
 $-2(5x + 1)(4x - 1) = 0$
 $x = -\frac{1}{5}, \frac{1}{4}$
- $-120x^2 + 236x - 36 = 0$
 $-4(5x - 9)(6x - 1) = 0$
 $x = 1\frac{4}{5}, \frac{1}{6}$
- $30x^2 + 145x + 140 = 0$
 $5(2x + 7)(3x + 4) = 0$
 $x = -3\frac{1}{2}, -1\frac{1}{3}$
- $30x^2 + 25x - 30 = 0$
 $5(2x + 3)(3x - 2) = 0$
 $x = -1\frac{1}{2}, \frac{2}{3}$
- $48x^2 - 124x + 70 = 0$
 $2(6x - 5)(4x - 7) = 0$
 $x = \frac{5}{6}, 1\frac{3}{4}$
- $324x^2 - 108x - 112 = 0$
 $4(9x - 7)(9x + 4) = 0$
 $x = \frac{7}{9}, -\frac{4}{9}$
- $-48x^2 + 124x - 80 = 0$
 $-4(4x - 5)(3x - 4) = 0$
 $x = 1\frac{1}{4}, 1\frac{1}{3}$
- $225x^2 + 230x - 315 = 0$
 $5(5x + 9)(9x - 7) = 0$
 $x = -1\frac{4}{5}, \frac{7}{9}$
- $288x^2 - 220x - 32 = 0$
 $4(9x - 8)(8x + 1) = 0$
 $x = \frac{8}{9}, -\frac{1}{8}$
- $120x^2 - 85x - 100 = 0$
 $5(3x - 4)(8x + 5) = 0$
 $x = 1\frac{1}{3}, -\frac{5}{8}$
- $40x^2 + 58x - 72 = 0$
 $2(4x + 9)(5x - 4) = 0$
 $x = -2\frac{1}{4}, \frac{4}{5}$
- $48x^2 + 96x - 27 = 0$
 $3(4x + 9)(4x - 1) = 0$
 $x = -2\frac{1}{4}, \frac{1}{4}$
- $56x^2 + 46x - 30 = 0$
 $2(4x + 5)(7x - 3) = 0$
 $x = -1\frac{1}{4}, \frac{3}{7}$
- $16x^2 - 138x + 80 = 0$
 $2(8x - 5)(x - 8) = 0$
 $x = \frac{5}{8}, 8$
- $48x^2 - 92x + 14 = 0$
 $2(4x - 7)(6x - 1) = 0$
 $x = 1\frac{3}{4}, \frac{1}{6}$
- $-140x^2 + 15x + 90 = 0$
 $-5(4x + 3)(7x - 6) = 0$
 $x = -\frac{3}{4}, \frac{6}{7}$
- $16x^2 + 36x - 36 = 0$
 $4(4x - 3)(x + 3) = 0$
 $x = \frac{3}{4}, -3$
- $-90x^2 + 475x - 315 = 0$
 $-5(2x - 9)(9x - 7) = 0$
 $x = 4\frac{1}{2}, \frac{7}{9}$
- $96x^2 + 332x + 252 = 0$
 $4(3x + 7)(8x + 9) = 0$
 $x = -2\frac{1}{3}, -1\frac{1}{8}$
- $-25x^2 - 115x - 60 = 0$
 $-5(x + 4)(5x + 3) = 0$
 $x = -4, -\frac{3}{5}$