

Solving Quadratic Equations (E)

Name: _____

Date: _____

Solve each equation for x.

1. $3x^2 + 10x + 8 = 0$

11. $3x^2 + 2x - 16 = 0$

2. $4x^2 - 11x + 6 = 0$

12. $5x^2 + 9x - 18 = 0$

3. $5x^2 - 32x - 21 = 0$

13. $4x^2 - 21x - 49 = 0$

4. $2x^2 + 7x - 72 = 0$

14. $4x^2 - x - 14 = 0$

5. $2x^2 - 15x + 28 = 0$

15. $2x^2 + 13x - 24 = 0$

6. $4x^2 + 15x - 4 = 0$

16. $4x^2 + 13x + 10 = 0$

7. $x^2 - 36 = 0$

17. $4x^2 - 23x + 28 = 0$

8. $4x^2 + 37x + 9 = 0$

18. $2x^2 + 5x - 63 = 0$

9. $5x^2 - 9x - 2 = 0$

19. $2x^2 - 5x - 63 = 0$

10. $2x^2 + 13x + 6 = 0$

20. $x^2 - 3x - 40 = 0$

Solving Quadratic Equations (E) Answers

Name: _____

Date: _____

Solve each equation for x.

- $3x^2 + 10x + 8 = 0$
 $(3x + 4)(x + 2) = 0$
 $x = -1\frac{1}{3}, -2$
- $4x^2 - 11x + 6 = 0$
 $(4x - 3)(x - 2) = 0$
 $x = \frac{3}{4}, 2$
- $5x^2 - 32x - 21 = 0$
 $(x - 7)(5x + 3) = 0$
 $x = 7, -\frac{3}{5}$
- $2x^2 + 7x - 72 = 0$
 $(x + 8)(2x - 9) = 0$
 $x = -8, 4\frac{1}{2}$
- $2x^2 - 15x + 28 = 0$
 $(2x - 7)(x - 4) = 0$
 $x = 3\frac{1}{2}, 4$
- $4x^2 + 15x - 4 = 0$
 $(4x - 1)(x + 4) = 0$
 $x = \frac{1}{4}, -4$
- $x^2 - 36 = 0$
 $(x + 6)(x - 6) = 0$
 $x = -6, 6$
- $4x^2 + 37x + 9 = 0$
 $(4x + 1)(x + 9) = 0$
 $x = -\frac{1}{4}, -9$
- $5x^2 - 9x - 2 = 0$
 $(x - 2)(5x + 1) = 0$
 $x = 2, -\frac{1}{5}$
- $2x^2 + 13x + 6 = 0$
 $(2x + 1)(x + 6) = 0$
 $x = -\frac{1}{2}, -6$
- $3x^2 + 2x - 16 = 0$
 $(x - 2)(3x + 8) = 0$
 $x = 2, -2\frac{2}{3}$
- $5x^2 + 9x - 18 = 0$
 $(x + 3)(5x - 6) = 0$
 $x = -3, 1\frac{1}{5}$
- $4x^2 - 21x - 49 = 0$
 $(x - 7)(4x + 7) = 0$
 $x = 7, -1\frac{3}{4}$
- $4x^2 - x - 14 = 0$
 $(x - 2)(4x + 7) = 0$
 $x = 2, -1\frac{3}{4}$
- $2x^2 + 13x - 24 = 0$
 $(2x - 3)(x + 8) = 0$
 $x = 1\frac{1}{2}, -8$
- $4x^2 + 13x + 10 = 0$
 $(x + 2)(4x + 5) = 0$
 $x = -2, -1\frac{1}{4}$
- $4x^2 - 23x + 28 = 0$
 $(x - 4)(4x - 7) = 0$
 $x = 4, 1\frac{3}{4}$
- $2x^2 + 5x - 63 = 0$
 $(2x - 9)(x + 7) = 0$
 $x = 4\frac{1}{2}, -7$
- $2x^2 - 5x - 63 = 0$
 $(x - 7)(2x + 9) = 0$
 $x = 7, -4\frac{1}{2}$
- $x^2 - 3x - 40 = 0$
 $(x - 8)(x + 5) = 0$
 $x = 8, -5$