

Solving Quadratic Equations (E)

Name: _____

Date: _____

Solve each equation for x.

1. $-6x^2 - 59x - 45 = 0$

11. $-6x^2 - 7x + 24 = 0$

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

12. $8x^2 + 18x + 7 = 0$

3. $6x^2 - 55x + 56 = 0$

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

4. $4x^2 + 28x + 45 = 0$

14. $-9x^2 - 32x + 16 = 0$

5. $6x^2 + 7x + 2 = 0$

15. $-8x^2 + 18x - 7 = 0$

6. $7x^2 + 40x + 25 = 0$

16. $-7x^2 - 32x + 15 = 0$

7. $6x^2 + 59x + 45 = 0$

17. $8x^2 + 45x - 18 = 0$

8. $7x^2 + 18x - 9 = 0$

18. $4x^2 + 16x + 7 = 0$

9. $2x^2 + 3x - 27 = 0$

19. $-2x^2 + 21x - 49 = 0$

10. $9x^2 - 14x - 8 = 0$

20. $7x^2 + 10x - 8 = 0$

Solving Quadratic Equations (E) Answers

Name: _____

Date: _____

Solve each equation for x.

- $-6x^2 - 59x - 45 = 0$
 $-(x + 9)(6x + 5) = 0$
 $x = -9, -\frac{5}{6}$
- $-x^2 - 3x - 2 = 0$
 $-(x + 1)(x + 2) = 0$
 $x = -1, -2$
- $6x^2 - 55x + 56 = 0$
 $(6x - 7)(x - 8) = 0$
 $x = 1\frac{1}{6}, 8$
- $4x^2 + 28x + 45 = 0$
 $(2x + 9)(2x + 5) = 0$
 $x = -4\frac{1}{2}, -2\frac{1}{2}$
- $6x^2 + 7x + 2 = 0$
 $(2x + 1)(3x + 2) = 0$
 $x = -\frac{1}{2}, -\frac{2}{3}$
- $7x^2 + 40x + 25 = 0$
 $(x + 5)(7x + 5) = 0$
 $x = -5, -\frac{5}{7}$
- $6x^2 + 59x + 45 = 0$
 $(x + 9)(6x + 5) = 0$
 $x = -9, -\frac{5}{6}$
- $7x^2 + 18x - 9 = 0$
 $(x + 3)(7x - 3) = 0$
 $x = -3, \frac{3}{7}$
- $2x^2 + 3x - 27 = 0$
 $(2x + 9)(x - 3) = 0$
 $x = -4\frac{1}{2}, 3$
- $9x^2 - 14x - 8 = 0$
 $(x - 2)(9x + 4) = 0$
 $x = 2, -\frac{4}{9}$
- $-6x^2 - 7x + 24 = 0$
 $-(3x + 8)(2x - 3) = 0$
 $x = -2\frac{2}{3}, 1\frac{1}{2}$
- $8x^2 + 18x + 7 = 0$
 $(2x + 1)(4x + 7) = 0$
 $x = -\frac{1}{2}, -1\frac{3}{4}$
- $2x^2 - 13x + 6 = 0$
 $(2x - 1)(x - 6) = 0$
 $x = \frac{1}{2}, 6$
- $-9x^2 - 32x + 16 = 0$
 $-(x + 4)(9x - 4) = 0$
 $x = -4, \frac{4}{9}$
- $-8x^2 + 18x - 7 = 0$
 $-(2x - 1)(4x - 7) = 0$
 $x = \frac{1}{2}, 1\frac{3}{4}$
- $-7x^2 - 32x + 15 = 0$
 $-(x + 5)(7x - 3) = 0$
 $x = -5, \frac{3}{7}$
- $8x^2 + 45x - 18 = 0$
 $(x + 6)(8x - 3) = 0$
 $x = -6, \frac{3}{8}$
- $4x^2 + 16x + 7 = 0$
 $(2x + 7)(2x + 1) = 0$
 $x = -3\frac{1}{2}, -\frac{1}{2}$
- $-2x^2 + 21x - 49 = 0$
 $-(2x - 7)(x - 7) = 0$
 $x = 3\frac{1}{2}, 7$
- $7x^2 + 10x - 8 = 0$
 $(7x - 4)(x + 2) = 0$
 $x = \frac{4}{7}, -2$