

Solving Quadratic Equations (I)

Name: _____

Date: _____

Solve each equation for x.

1. $-3x^2 + 27x - 54 = 0$

11. $-5x^2 - 35x - 60 = 0$

2. $3x^2 - 12x - 96 = 0$

12. $4x^2 + 52x + 160 = 0$

3. $5x^2 + 50x + 80 = 0$

13. $2x^2 - 2x - 12 = 0$

4. $2x^2 - 18x + 36 = 0$

14. $4x^2 - 60x + 224 = 0$

5. $4x^2 - 12x - 16 = 0$

15. $2x^2 + 30x + 112 = 0$

6. $-2x^2 + 8x - 6 = 0$

16. $-4x^2 - 16x + 20 = 0$

7. $-4x^2 - 4x + 24 = 0$

17. $-4x^2 - 48x - 128 = 0$

8. $-4x^2 + 24x - 32 = 0$

18. $5x^2 + 50x + 45 = 0$

9. $-3x^2 - 39x - 108 = 0$

19. $2x^2 + 10x + 8 = 0$

10. $5x^2 + 65x + 210 = 0$

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

Solving Quadratic Equations (I) Answers

Name: _____

Date: _____

Solve each equation for x.

- $-3x^2 + 27x - 54 = 0$
 $-3(x - 6)(x - 3) = 0$
 $x = 6, 3$
- $3x^2 - 12x - 96 = 0$
 $3(x + 4)(x - 8) = 0$
 $x = -4, 8$
- $5x^2 + 50x + 80 = 0$
 $5(x + 8)(x + 2) = 0$
 $x = -8, -2$
- $2x^2 - 18x + 36 = 0$
 $2(x - 3)(x - 6) = 0$
 $x = 3, 6$
- $4x^2 - 12x - 16 = 0$
 $4(x + 1)(x - 4) = 0$
 $x = -1, 4$
- $-2x^2 + 8x - 6 = 0$
 $-2(x - 1)(x - 3) = 0$
 $x = 1, 3$
- $-4x^2 - 4x + 24 = 0$
 $-4(x + 3)(x - 2) = 0$
 $x = -3, 2$
- $-4x^2 + 24x - 32 = 0$
 $-4(x - 4)(x - 2) = 0$
 $x = 4, 2$
- $-3x^2 - 39x - 108 = 0$
 $-3(x + 4)(x + 9) = 0$
 $x = -4, -9$
- $5x^2 + 65x + 210 = 0$
 $5(x + 6)(x + 7) = 0$
 $x = -6, -7$
- $-5x^2 - 35x - 60 = 0$
 $-5(x + 3)(x + 4) = 0$
 $x = -3, -4$
- $4x^2 + 52x + 160 = 0$
 $4(x + 5)(x + 8) = 0$
 $x = -5, -8$
- $2x^2 - 2x - 12 = 0$
 $2(x - 3)(x + 2) = 0$
 $x = 3, -2$
- $4x^2 - 60x + 224 = 0$
 $4(x - 7)(x - 8) = 0$
 $x = 7, 8$
- $2x^2 + 30x + 112 = 0$
 $2(x + 8)(x + 7) = 0$
 $x = -8, -7$
- $-4x^2 - 16x + 20 = 0$
 $-4(x + 5)(x - 1) = 0$
 $x = -5, 1$
- $-4x^2 - 48x - 128 = 0$
 $-4(x + 4)(x + 8) = 0$
 $x = -4, -8$
- $5x^2 + 50x + 45 = 0$
 $5(x + 1)(x + 9) = 0$
 $x = -1, -9$
- $2x^2 + 10x + 8 = 0$
 $2(x + 1)(x + 4) = 0$
 $x = -1, -4$
- $-2x^2 + 10x - 8 = 0$
 $-2(x - 4)(x - 1) = 0$
 $x = 4, 1$