

Solving Quadratic Equations (I)

Name: _____

Date: _____

Solve each equation for x.

1. $x^2 - 25 = 0$

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

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

12. $x^2 + 3x + 2 = 0$

3. $x^2 - 13x + 40 = 0$

13. $x^2 + 14x + 45 = 0$

4. $x^2 + 11x + 30 = 0$

14. $x^2 + 7x + 12 = 0$

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

15. $x^2 + 4x + 3 = 0$

6. $x^2 + 7x - 18 = 0$

16. $x^2 - 9x + 20 = 0$

7. $x^2 + 15x + 56 = 0$

17. $x^2 + 6x - 7 = 0$

8. $x^2 - 7x + 6 = 0$

18. $x^2 - 6x + 5 = 0$

9. $x^2 - 2x - 35 = 0$

19. $x^2 + 12x + 32 = 0$

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

20. $x^2 - 10x + 25 = 0$

Solving Quadratic Equations (I) Answers

Name: _____

Date: _____

Solve each equation for x.

1. $x^2 - 25 = 0$
 $(x + 5)(x - 5) = 0$
 $x = -5, 5$

2. $x^2 - 2x + 1 = 0$
 $(x - 1)(x - 1) = (x - 1)^2 = 0$
 $x = 1$

3. $x^2 - 13x + 40 = 0$
 $(x - 5)(x - 8) = 0$
 $x = 5, 8$

4. $x^2 + 11x + 30 = 0$
 $(x + 6)(x + 5) = 0$
 $x = -6, -5$

5. $x^2 - 5x + 6 = 0$
 $(x - 3)(x - 2) = 0$
 $x = 3, 2$

6. $x^2 + 7x - 18 = 0$
 $(x + 9)(x - 2) = 0$
 $x = -9, 2$

7. $x^2 + 15x + 56 = 0$
 $(x + 8)(x + 7) = 0$
 $x = -8, -7$

8. $x^2 - 7x + 6 = 0$
 $(x - 6)(x - 1) = 0$
 $x = 6, 1$

9. $x^2 - 2x - 35 = 0$
 $(x + 5)(x - 7) = 0$
 $x = -5, 7$

10. $x^2 + 2x - 8 = 0$
 $(x + 4)(x - 2) = 0$
 $x = -4, 2$

11. $x^2 - 8x + 15 = 0$
 $(x - 5)(x - 3) = 0$
 $x = 5, 3$

12. $x^2 + 3x + 2 = 0$
 $(x + 2)(x + 1) = 0$
 $x = -2, -1$

13. $x^2 + 14x + 45 = 0$
 $(x + 9)(x + 5) = 0$
 $x = -9, -5$

14. $x^2 + 7x + 12 = 0$
 $(x + 4)(x + 3) = 0$
 $x = -4, -3$

15. $x^2 + 4x + 3 = 0$
 $(x + 1)(x + 3) = 0$
 $x = -1, -3$

16. $x^2 - 9x + 20 = 0$
 $(x - 4)(x - 5) = 0$
 $x = 4, 5$

17. $x^2 + 6x - 7 = 0$
 $(x - 1)(x + 7) = 0$
 $x = 1, -7$

18. $x^2 - 6x + 5 = 0$
 $(x - 5)(x - 1) = 0$
 $x = 5, 1$

19. $x^2 + 12x + 32 = 0$
 $(x + 8)(x + 4) = 0$
 $x = -8, -4$

20. $x^2 - 10x + 25 = 0$
 $(x - 5)(x - 5) = (x - 5)^2 = 0$
 $x = 5$