

4.3 Practice

Solving Quadratic Equations by Factoring

Write a quadratic equation in standard form for the given conditions.

1. $x = 3$ or $x = 5$
 $(x - 3)(x - 5) = 0$

2. $x = 2$ or $x = 8$
 $(x - 2)(x - 8) = 0$

3. $x = 1$ or $x = 4$
 $(x - 1)(x - 4) = 0$

Write the following equations.

4. $x^2 + 12x + 36 = 0$
 $(x + 6)^2 = 0$

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

Solve each equation by factoring.

6. $x^2 - 16 = 0$ $(x - 4)(x + 4) = 0$

7. $x^2 - 9 = 0$ $(x - 3)(x + 3) = 0$

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

9. $x^2 - 36 = 0$ $(x - 6)(x + 6) = 0$

10. $x^2 - 49 = 0$ $(x - 7)(x + 7) = 0$

11. $x^2 - 100 = 0$ $(x - 10)(x + 10) = 0$

12. $x^2 + 14x + 49 = 0$ $(x + 7)^2 = 0$

13. $x^2 + 12x + 36 = 0$ $(x + 6)^2 = 0$

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

15. $x^2 - 16 = 0$ $(x - 4)(x + 4) = 0$

16. $x = 2$ or $x = 8$
 $(x - 2)(x - 8) = 0$

17. $x = 1$ or $x = 4$
 $(x - 1)(x - 4) = 0$

18. $x = 3$ or $x = 5$
 $(x - 3)(x - 5) = 0$

19. $x^2 + 12x + 36 = 0$
 $(x + 6)^2 = 0$

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

21. $x = 2$ or $x = 8$
 $(x - 2)(x - 8) = 0$

22. $x = 1$ or $x = 4$
 $(x - 1)(x - 4) = 0$

23. $x = 3$ or $x = 5$
 $(x - 3)(x - 5) = 0$

24. $x^2 + 12x + 36 = 0$
 $(x + 6)^2 = 0$

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

Factoring Pg 78 Develpoing Skills In Algebra Book B

Lingsheng Yao



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