

Practice

9.8 Solving Equations by Factoring

Identify the zeros for each function.

1. $y = (x + 4)(x - 3)$ _____ 2. $y = (x + 4)(x + 4)$ _____

3. $y = (x + 6)(x - 7)$ _____ 4. $y = (x - 5)(x - 2)$ _____

5. $y = (x + 21)(x - 16)$ _____ 6. $y = x(x - 12)$ _____

7. $y = (2x + 5)(x + 1)$ _____ 8. $y = (3x + 6)(x - 4)$ _____

9. $y = x(5x + 1)$ _____ 10. $y = (2x - 3)(3x - 2)$ _____

Solve by factoring.

11. $x^2 + 5x + 6 = 0$ _____ 12. $x^2 + x - 20 = 0$ _____

13. $x^2 + 6x - 7 = 0$ _____ 14. $x^2 - 4 = 0$ _____

15. $x^2 + 6x = -9$ _____ 16. $x^2 + x - 12 = 0$ _____

17. $x^2 + 16x + 64 = 0$ _____ 18. $x^2 + 8x = 9$ _____

19. $x^2 + 2x = 3$ _____ 20. $x^2 - 5x = 6$ _____

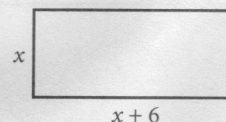
21. $x^2 + 18x = -81$ _____ 22. $x^2 - 25 = 0$ _____

23. $2x^2 + 11x + 5 = 0$ _____ 24. $3x^2 + 5x + 2 = 0$ _____

25. $x^2 + 8x = 0$ _____ 26. $x^2 - 8x = -16$ _____

27. $2x^2 + 9x + 10 = 0$ _____ 28. $3x^2 + 8x + 4 = 0$ _____

29. The area of the rectangle is 40 square centimeters. Find the value of x .



30. The area of the square is 16 square centimeters. Find the value of x .

