

Problemas

Diferencie las funciones de los problemas 1 a 48.

*1. $f(x) = (4x + 1)(6x + 3)$ 2. $f(x) = (3x - 1)(7x + 2)$

3. $s(t) = (5 - 3t)(t^3 - 2t^2)$ 4. $Q(x) = (3 + x)(5x^2 - 2)$

5. $f(r) = (3r^2 - 4)(r^2 - 5r + 1)$

6. $C(I) = (2I^2 - 3)(3I^2 - 4I + 1)$

7. $f(x) = x^2(2x^2 - 5)$ 8. $f(x) = 3x^3(x^2 - 2x + 2)$

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

10. $\phi(x) = (3 - 5x + 2x^2)(2 + x - 4x^2)$

11. $f(w) = (w^2 + 3w - 7)(2w^3 - 4)$

12. $f(x) = (3x - x^2)(3 - x - x^2)$

13. $y = (x^2 - 1)(3x^3 - 6x + 5) - 4(4x^2 + 2x + 1)$

14. $h(x) = 4(x^5 - 3) + 3(8x^2 - 5)(2x + 2)$

*15. $F(p) = \frac{3}{2}(5\sqrt{p} - 2)(3p - 1)$

16. $g(x) = (\sqrt{x} + 5x - 2)(\sqrt[3]{x} - 3\sqrt{x})$

*17. $y = 7 \cdot \frac{2}{3}$

18. $y = (x - 1)(x - 2)(x - 3)$

*19. $y = (2x - 1)(3x + 4)(x + 7)$

20. $y = \frac{2x - 3}{4x + 1}$ 5x

22. $H(x) = \frac{-5x}{5 - x}$

24. $f(x) = \frac{5(x^2 - 2)}{7}$

26. $h(w) = \frac{3w^2 + 5w - 1}{w - 3}$

28. $z = \frac{2x^2 + 5x - 2}{3x^2 + 5x + 3}$

30. $f(x) = \frac{x^3 - x^2 + 1}{x^2 + 1}$

32. $F(z) = \frac{z^4 + 4}{3z}$

34. $y = \frac{-9}{2x^5}$

36. $y = \frac{x - 5}{8\sqrt{x}}$

38. $y = \frac{x^{0.3} - 2}{2x^{2.1} + 1}$

40. $q(x) = 2x^3 + \frac{5x + 1}{3x - 5} - \frac{2}{x^3}$

41. $y = \frac{x - 5}{(x + 2)(x - 4)}$

43. $s(t) = \frac{t^2 + 3t}{(t^2 - 1)(t^3 + 7)}$

*45. $y = 3x - \frac{\frac{2}{x} - \frac{3}{x - 1}}{x - 2}$

*21. $f(x) = \frac{1}{x - 1}$

23. $f(x) = \frac{-13}{3x^5}$

25. $y = \frac{x + 2}{x - 1}$

27. $h(z) = \frac{6 - 2z}{z^2 - 4}$

29. $y = \frac{8x^2 - 2x + 1}{x^2 - 5x}$

31. $y = \frac{x^2 - 4x + 3}{2x^2 - 3x + 2}$

33. $g(x) = \frac{1}{x^{100} + 7}$

35. $u(v) = \frac{v^3 - 8}{v}$

37. $y = \frac{3x^2 - x - 1}{\sqrt[3]{x}}$

39. $y = 7 - \frac{4}{x - 8} + \frac{2x}{3x + 1}$

42. $y = \frac{(9x - 1)(3x + 2)}{4 - 5x}$

44. $f(s) = \frac{17}{s(5s^2 - 10s + 4)}$

46. $y = 3 - 12x^3 + \frac{1 - \frac{5}{x^2 + 2}}{x^2 + 5}$