

# DERIVADAS

Hallar la derivada de las siguientes funciones:

- $f(x) = \frac{3}{2}x^3 + \frac{2}{5}x^2 - \frac{4}{7}x - 5$
- $f(x) = x \cdot (x + 2)$
- $f(x) = x^2 \cdot (7 - 2x)$
- $f(x) = (2x - 5) \cdot (4 - 3x)$
- $f(x) = (-x^4 - 2) \cdot (5x - 7x^2)$
- $f(x) = (3x^4 - 3x^2 + 5)^4$
- $f(x) = (1 - 2x + 3x^2 - 4x^3)^5$
- $f(x) = \frac{2x + 5}{3}$
- $f(x) = \frac{2}{x - 3}$
- $f(x) = \frac{4}{x^2}$
- $f(x) = \frac{2x - 3}{3 - x}$
- $f(x) = 6x^5 - 3x^4$
- $f(x) = (3 - 4x - 5x^2)^4$
- $f(x) = \frac{x^8}{9} - \frac{x^5}{3}$
- $f(x) = (x^2 - 1)^3 \cdot (2x^2 - 3x + 2)^3$
- $f(x) = \frac{x^2 + 5}{x^2 + 6}$
- $f(x) = \frac{x^4 - 3x^2 + 7x}{2x + 5}$
- $f(x) = \frac{(2x + 3)^3}{(3x^2 - 2x + 6)^2}$
- $f(x) = \sqrt{x}$
- $f(x) = \frac{1 + x}{1 - x}$
- $f(x) = \sqrt[4]{x - 5}$
- $f(x) = \sqrt{3x} - \sqrt{3 - x}$
- $f(x) = \frac{2x^3 - 3x^2 - 2x - 4}{2x^2 - 3x + 6}$
- $f(x) = \frac{2x - 5x^2 + x^3}{(2x - 8) \cdot (3x - 4)}$
- $f(x) = 2\sqrt[5]{x^4 - 1}$
- $f(x) = x^2 + \sqrt{x^3 - 2}$
- $f(x) = \sqrt{2x} + \sqrt[3]{x} - \frac{1}{x}$
- $f(x) = \text{sen}(5x - 3)$
- $f(x) = \cos 3^x$
- $f(x) = \text{Ln}(7x + 2)$
- $f(x) = \cos(4 - 9x^2)$
- $f(x) = \sqrt{\frac{1 - x}{1 + x}}$
- $f(x) = x \cdot \sqrt{3x^2 - 1}$
- $f(x) = \sqrt[3]{\text{Ln } x}$
- $f(x) = \text{sen} \frac{3}{x^2}$
- $f(x) = \sqrt[4]{2^x}$
- $f(x) = \cos \sqrt[5]{3x}$
- $f(x) = \text{Ln}(x^2 + 7)$
- $f(x) = \frac{x^2 + 1}{x^2 - 1}$
- $f(x) = x \cdot e^x$
- $f(x) = \text{Ln} \left( \frac{2 - 5x^2}{4} \right)$
- $f(x) = \sqrt[3]{x^5}$
- $f(x) = e^{(3x^4 - 5x)^2}$
- $f(x) = \frac{1 - 3x}{x} + (5x - 2)^3$
- $f(x) = \frac{x^2 - 3x}{2x - 5}$
- $f(x) = 3^{5x^2 - 4x}$
- $f(x) = 3^{5x} + e^x$
- $f(x) = 2x^{-3} - 3x^{-1}$
- $f(x) = (x^2 + 2) \cdot \text{Ln}(x^2 + 2)$
- $f(x) = \frac{1 - 3x}{x} + (5x - 2)^3$
- $f(x) = \frac{(3x^5 + 4)^3}{5x^3 - x}$
- $f(x) = \text{sen}(x^2 - 1) + \cos 3x$
- $f(x) = \text{Ln} \left( \frac{x}{x - 1} \right)$
- $f(x) = \sqrt{\text{sen}(3x^4 - 2x)}$
- $f(x) = \frac{1}{\text{sen } 3x}$
- $f(x) = (\cos 2x)^3 - e^{2x - 1}$
- $f(x) = \frac{e^{x - 1}}{\text{sen } x}$
- $f(x) = \sqrt[3]{\text{Ln}(x^2 - 1)}$
- $f(x) = \sqrt[3]{2x - 1}$
- $f(x) = \frac{2 + 3x}{1 + \sqrt{x}}$
- $f(x) = \frac{e^x - 1}{e^x + 1}$
- $f(x) = (3x - 1) \cdot 2^{x - 1}$
- $f(x) = \log_2(x^3 - 2x + 1)$
- $f(x) = \log \frac{x}{x - 1}$

