EJERCICIOS DERIVADAS

- $f(x) = 4 \longrightarrow f'(x) = 0$
- $f(x) = 3x^2 \longrightarrow f'(x) = 6x$
- $f(x) = 3x^5 - x^3 \longrightarrow f'(x) = 15x^4 - 3x^2$
- $f(x) = x \longrightarrow f'(x) = 1$
- $f(x) = x^4 + 4 \longrightarrow f'(x) = 4x^3$
- $f(x) = a^5 \longrightarrow f'(x) = 0$
- $f(x) = ax^2 + bx + c \longrightarrow f'(x) = 2ax + b$
- $f(x) = (x+1)\left(x^2 - x + 3\right) \longrightarrow f'(x) = 3x^2 + 2$
- $f(x) = x(x-1)^2 \longrightarrow f'(x) = 3x^2 - 4x + 1$

- $f(x) = x^{-2} \longrightarrow f'(x) = \dfrac{-2}{x^3}$
- $f(x) = \dfrac{1}{x+1} \longrightarrow f'(x) = \dfrac{-1}{(x+1)^2}$
- $f(x) = \dfrac{x^2-3}{x^3+x} \longrightarrow f'(x) = \dfrac{-x^4+10x^2+3}{(x^3+x)^2}$
- $f(x) = \dfrac{x+1}{x} \longrightarrow f'(x) = \dfrac{-1}{x^2}$
- $f(x) = \sqrt{3x-2} \longrightarrow f'(x) = \dfrac{3}{2\sqrt{3x-2}}$
- $f(x) = (x^2+x)^3 \longrightarrow f'(x) = (x^2+x)^2(6x+3)$
- $f(x) = (3x+x^2)^{100} \longrightarrow f'(x) = 100(3x+x^2)^{99}(3+2x)$
- $f(x) = \dfrac{x}{\sqrt{3x}} \longrightarrow f'(x) = \dfrac{\sqrt{3}x - x\dfrac{3}{2\sqrt{3x}}}{3x}$