

Derivadas

Indica la derivada correcta de cada función:

$$f(x) = 6x^5 - 2\cos x$$

$$f'(x) = 0.5x^4 - 2\sin x$$

$$f'(x) = 6x^5 \ln 5 - 2\sin x$$

$$f'(x) = 30x^4 + 2\sin x$$

$$g(x) = \frac{4}{x^2} + 7 \log_3 x$$

$$g'(x) = \frac{-8}{x^3} + \frac{7}{x} \log_3 e$$

$$g'(x) = \frac{-8}{x} + \frac{7}{x} \log_3 e$$

$$g'(x) = \frac{-8}{x} + \frac{7}{x} \log_3 x$$

$$h(x) = 3\sin x \cdot \sqrt{x}$$

$$h'(x) = 3 \cos x \cdot \frac{1}{2\sqrt{x}}$$

$$h'(x) = \frac{3 \cos x \cdot \sqrt{x} - 3 \sin x \cdot \frac{1}{2\sqrt{x}}}{x}$$

$$h'(x) = 3 \cos x \cdot \sqrt{x} + 3 \sin x \cdot \frac{1}{2\sqrt{x}}$$

$$i(x) = \frac{\ln x}{2e^x}$$

$$i'(x) = \frac{\frac{2e^x}{x} - 2 \ln x \cdot e^x}{4e^{2x}}$$

$$i'(x) = \frac{2e^x}{x} + 2 \ln x \cdot e^x$$

$$i'(x) = \frac{\frac{1}{x}}{2e^x}$$