



Problemario calculo

CÁLCULO

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GRADO: 4° | GRUPO: BRH

$$y = x^5 + 5x^4 - 10x^3 + 6$$

$$= 8x^{1/2} - x^{3/2} + 2x^{-1/2}$$

$$y = \frac{1}{2x^2} + \frac{4}{\sqrt{x}} =$$

$$y = \sqrt{2x} + 2\sqrt{x}$$

$$f(t) = \frac{2}{\sqrt{t}} + \frac{6}{\sqrt[3]{t}}$$

$$y = (1 - 5x)^6$$

$$f(x) = (3x - x^3 + 1)^4$$

$$y = (3 + 4x - x^2)^{1/2}$$

$$\frac{Dy}{Dx} = 6x + 2$$

$$y = x^5 + 5x^6 - 10x^3 + 6$$

$$y = 5x^6 + x^5 - 10x^3 + 6$$

$$f3) \frac{d}{dx} (5x^6 + x^5 - 10x^3 + 6)$$

$$f4) \frac{d}{dx} (5x^6) + \frac{d}{dx} (x^5) - \frac{d}{dx} (10x^3) + \frac{d}{dx} (6)$$

$$= 5(6)x^{6-1} + 5x^{5-1} - 10(3)x^{3-1} + 0$$

$$= 30x^5 + 5x^4 - 30x^2$$

$$y = x^5 + 5x^6 - 10x^3 + 6$$

$$y = 5x^6 + x^5 - 10x^3 + 6$$

$$= 30x^5 + 5x^4 - 30x^2$$

$$x = \frac{1}{2x^2} + \frac{4}{\sqrt{x}}$$

$$y = \frac{1}{2} \cdot \frac{1}{x^2} + \frac{4}{x^{1/2}}$$

$$= \frac{1}{2} x^{-2} + 4x^{-1/2}$$

$$= \frac{1}{2} x^{-2} + 4 \cdot \frac{1}{2} x^{-1/2}$$

$$= \frac{1}{2} x^{-2} + 2x^{-1/2}$$

$$= \frac{1}{2} x^{-2} + \frac{2}{x^{1/2}}$$

$$= \frac{1}{2} x^{-2} + \frac{2}{x^{1/2}}$$

$$f(+1) = \frac{2}{x} + \frac{6}{\sqrt{x}}$$

$$= \frac{2}{+1} + \frac{6}{+1/3}$$

$$= 2 + \frac{1}{2} + 6 \cdot \frac{-1/3}{+1/3}$$

$$= -2 \cdot \frac{1/2} + \frac{6 \cdot (-1/3)}{+1/3} + 6 \cdot \frac{-1/3 - 2/3}{+1/3}$$

$$= -1 - 2 - 2 + \frac{4}{3}$$

$$= \frac{-1 - 2 - 2}{+3/2} - \frac{2}{+4/3} = \frac{1}{\sqrt{+3}} - \frac{2}{\sqrt{+9}}$$