

Universidad Mariano Gálvez de Guatemala
Boca del Monte

Ingeniería en Sistemas. Ciclo II, "c"
Jornada Sábado.

PRECALCULO
CHRISTIAN LOPEZ



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$$f(y) = 6y + 8$$

$$f'(y) = \frac{d}{dy} (6y + 8)$$

$$f'(y) = \frac{d}{dy} (y) + \frac{d}{dy} (8)$$

$$f'(y) = 6 + 0$$

$$\rightarrow f'(y) = 6$$

$$f(y) = \frac{2y-3}{4}$$

$$f'(y) = \frac{d}{dy} \left(\frac{2y-3}{4} \right)$$

$$f'(y) = \frac{1}{4} \cdot \frac{d}{dy} (2y-3)$$

$$f'(y) = \frac{1}{4} \left(\frac{d}{dy} (2y) - \frac{d}{dy} (3) \right)$$

$$f'(y) = \frac{1}{4} (2)$$

$$\rightarrow f'(y) = \frac{1}{2}$$

$$f(y) = \frac{7}{2y-1}$$

$$f'(y) = \frac{d}{dy} \left(\frac{7}{2y-1} \right)$$

$$f'(y) = -7 \left(\frac{\frac{d}{dy} (2y-1)}{(2y-1)^2} \right)$$

$$f'(y) = -7 \left(\frac{\frac{d}{dy} (2y) - \frac{d}{dy} (1)}{(2y-1)^2} \right)$$

$$f'(y) = -7 \left(\frac{2-0}{(2y-1)^2} \right)$$

$$f'(y) = -7 \left(\frac{2}{(2y-1)^2} \right)$$

$$\rightarrow f'(y) = -\frac{14}{(2y-1)^2}$$

$$(f+g)(x)$$

$$(f+g)(x) = f(x) + g(x)$$

$$(f+g)(x) = 1/x + x^2 + 2x$$

$$(f+g)(x) = \frac{1 + x^3 + 2x^2}{x}$$

$$(f+g)(x) = \frac{x^3 + 2x^2 + 1}{x}$$

$$(f \cdot g)(x)$$

$$(f \cdot g)(x) = f(x) \cdot g(x)$$

$$(f \cdot g)(x) = \frac{1}{x} (x^2 + 2x)$$

$$(f \cdot g)(x) = \frac{1}{x} (x)(x+2)$$

$$(f \cdot g)(x) = x+2$$

$$(f/g)(x)$$

$$(f/g)(x) = f(x)/g(x)$$

$$(f/g)(x) = 1/x / x^2 + 2x$$

$$x^2 + 2x = 0$$

$$x_1 = -2, x_2 = 0$$

$$(f/g)(x) = 1/x / x^2 + 2x, x \neq -2, x \neq 0$$

$$(f/g)(x) = 1/x (x^2 + 2x), x \neq -2, x \neq 0$$

$$(f/g)(x) = \frac{1}{x^3 + 2x^2} \quad x \neq -2, x \neq 0$$

$$(g \circ f)(x)$$

$$(g \circ f)(x) = g(f(x))$$

$$(g \circ f)(x) = g(1/x)$$

$$g(1/x) = (1/x)^2 + 2(1/x)$$

$$(g \circ f)(x) = (1/x)^2 + 2(1/x)$$

$$(g \circ f)(x) = 1 + 2x / x^2$$