Revisão

Cap. 3:

$$\frac{d}{dx}(x^m) = m \times^{m-1}, m \in \mathbb{R}$$

$$\frac{d}{dx} \left[c \left(f \right) \right] = c \frac{dx}{dx} f(x)$$

$$\frac{d}{dx}\left[f(x)+g(x)\right]=\frac{d}{dx}f(x)+\frac{d}{dx}g(x)$$

$$\frac{d}{dx} \left[f(x) - g(x) \right] = \frac{d}{dx} f(x) - \frac{d}{dx} g(x)$$

$$\lim_{k \to 0} \frac{e^{k-1}}{k} = 1$$

$$\frac{d}{dx} \left(e^{x} \right) = e^{x}$$

$$\frac{d}{dx} \left[f(x) g(x) \right] = f(x) \cdot \frac{d}{dx} \left[g(x) \right] + g(x) \cdot \frac{d}{dx} \left[f(x) \right]$$

$$\frac{d}{dx} \left[\frac{f(x)}{g(x)} \right] = \frac{g(x)}{dx} \frac{d}{dx} \left[f(x) \right] - f(x) \frac{d}{dx} \left[g(x) \right]^{2}$$

lim
$$\frac{\partial n}{\partial x} = 1 = \lim_{n \to \infty} \frac{\partial n}{\partial x}$$

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$$\frac{di}{dx} = \frac{dy}{du} \cdot \frac{duy}{duz} \cdot \frac{duz}{duz} \cdot \frac{du_m}{dx}$$

$$\frac{d}{dx} \left[q(x) \right]^m = m \left[q(x) \right]^{m-1} q'(x)$$

$$\frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx} = m u^{m-1} q'(x)$$

$$\frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx} = m u^{m-1} q'(x)$$

$$\frac{d}{dx} \begin{pmatrix} (a^{x}) = a^{x} \ln a \\ dx \end{pmatrix}$$

$$\frac{d}{dx} \begin{pmatrix} (a^{x} \cos x) = x = x \sin y \\ dx \end{pmatrix} + \frac{d}{dx} \begin{pmatrix} (a^{x} \cos y) = x = x \sin y \\ dx \end{pmatrix} + \frac{d}{dx} \begin{pmatrix} (a^{x} \cos y) = x = x \cos y \\ dx \end{pmatrix} + \frac{d}{dx} \begin{pmatrix} (a^{x} \cos y) = x = x \cos y \\ dx \end{pmatrix} + \frac{d}{dx} \begin{pmatrix} (a^{x} \cos x) = x \cos y \\ dx \end{pmatrix} + \frac{d}{dx} \begin{pmatrix} (a^{x} \cos x) = x \cos y \\ dx \end{pmatrix} + \frac{d}{dx} \begin{pmatrix} (a^{x} \cos x) = x \cos x \\ dx \end{pmatrix} = \frac{1}{1+x^{2}}$$

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$$\frac{d}{dx} (\log_{x} x) = \frac{1}{x \ln a}$$

$$\frac{d}{dx} (\ln_{x} x) = \frac{1}{x}$$

$$\frac{d}{dx} (\ln_{x} x) = \frac{1}{x} \cdot \cos_{x} = \cot_{x} x$$

$$\frac{d}{dx} (\ln_{x} x) = \frac{1}{x} \cdot (\cos_{x} x) = \frac{1}{x} \ln_{x} x + \frac{1}{x} \ln_{x} (x^{2} + 1) - \sin_{x} x$$

$$\frac{d}{dx} (\ln_{x} x) = \frac{1}{x} \cdot (\sin_{x} x) + \frac{1}{x} \ln_{x} (x^{2} + 1) - \sin_{x} x$$

$$y = \frac{3}{x} \ln_{x} x + \frac{1}{x} \ln_{x} (x^{2} + 1) - \sin_{x} x$$

$$y' = y \left(\frac{3}{y} \ln_{x} x + \dots \right)'$$

$$e = \lim_{x \to \infty} (1 + x)^{1/x} = \lim_{x \to \infty} (1 + \frac{1}{x})^{1/x}$$

$$e^{x} = \lim_{x \to \infty} (1 + x)^{1/x} = \lim_{x \to \infty} (1 + \frac{1}{x})^{1/x}$$

$$\lim_{x \to \infty} (1 + x)^{1/x} = \lim_{x \to \infty} (1 + x)$$

$$\frac{dx}{dy} = f'(x) = \frac{dx}{dy} = f'(x) \frac{dx}{dx} = \frac{2\sqrt{x}}{x}$$

$$dy = \frac{1}{2\sqrt{4}} \cdot 0.05 = \frac{0.05}{4}$$

$$V = 1000 \text{ mL} \qquad A(n) = 2 \text{ Tm}^2 + 2 \text{ Tm} = 2 \text{ tm}$$

c i ponter certico

$$-(b) = \frac{1}{2} \implies f'(x) = -\frac{1}{2}$$

$$x \neq D(f)$$

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Cop. 5:

$$\int_{1}^{e} \frac{2}{x} dx = 2 \int_{1}^{e} \frac{1}{x} x = \left[2 \left(\frac{\ln|x| + C}{1} \right) \right] = 1$$

$$= \left[2 \ln|x| + C \right]_{1}^{e} = 1$$

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$$\int_{\alpha}^{b} f(x) dx = \lim_{m \to \infty} \int_{x=1}^{\infty} f(x^{*}) dx$$

Le f for continua en [a, b], on f tiver apenas un n° ginte de descont. de solter, entro f é interpériel en (a,t), ou roja, fox dx servite $g(x) = \int_{\alpha}^{\infty} f(t) dt$ é cont e derir em (a,b) e g'(x) = f(x) f'(x) = x f'(x) = x f'(x) = x f'(x) = x $\int_{a}^{b} f(x) dx = \left[F(x)\right]_{a}^{b} = F(b) - F(a)$

dese de solto:

lim f(x) e lim f(x) existern (mão sões $\pm \infty$), $x \Rightarrow a^{-}$ $x \Rightarrow a^{+}$ $x \Rightarrow a^{+}$ mas sões distintos.