lo dijerusiel de "x" — Brque vannos a deriver respecto a la letra "x"



Símbolo

de la integral

$$=\int_{a}^{a} dx = x + d$$

b)
$$\int x^2 dx = \frac{x^{2+1}}{2+1} + d = \frac{x^3}{3} + d$$



a)
$$\int x^9 dx = \frac{x^{10}}{9+1} = \frac{x^{10}}{10} + 6$$



https://youtube.com/ @Academiatemas? si=fOJYAN4EiDXg6yal

$$\frac{d}{dx} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \end{cases} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \end{cases} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \end{cases} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \end{cases} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \end{cases} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \end{cases} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \end{cases} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \end{cases} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \end{cases} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \end{cases} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5}} \cdot e^{1x} \end{cases} = \begin{cases} \frac{1}{x^{5}} \cdot e^{1x} \\ \frac{1}{x^{5$$

$$= \frac{1}{-9 \cdot x^4} + 9$$

$$\frac{1}{2} = \frac{1}{2} = \frac{1}$$

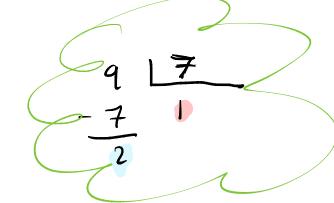
$$= \frac{x^{5/6}}{x^{5/6}} = \frac{6 \cdot x^{5/6}}{5} = \frac{6 \cdot \sqrt{x^{5/6}}}{5} + 4$$



$$\frac{5/6}{5} = \frac{5/6}{5}$$

$$\frac{5}{5}$$

$$\frac{5}{5}$$









a)
$$S(x^2 + x) dx =$$

$$=\frac{x^3}{3}+\frac{x^2}{2}+4$$



a)
$$S(x^2 + x) dx = S^2 dx + S dx$$

$$= S^3 + S^2 + 4$$

$$= S^3 + S^2 + 4$$

$$= S^3 + S^2 + 4$$

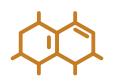
$$= S^3 + S^3$$



b)
$$\int 5 \cdot \cos(x) dx = 5 \cdot \int \cos(x) dx = 5 \cdot \sin(x) + 4$$

las constatos Poeda Stir Sole

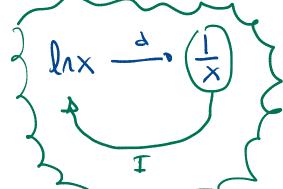




$$\int_{4}^{4} \int_{5}^{5} dx = 5 \cdot \int_{4}^{4} \int_{6}^{6} dx = 5 \cdot x = 5x$$

$$c/x = 5 \cdot x = 5x$$

$$c) \int \frac{dx}{dx} = \int \frac{8x}{dx} dx = \frac{1}{8} \int \frac{1}{x^{-1}} dx$$



$$\frac{X^{-1+1}}{X^{-1+1}} = \frac{X^{\circ}}{0} = \overline{A}$$



$$=\frac{1}{8}\int_{-\infty}^{\infty} \frac{1}{8} \cdot \ln |x| + 4$$

D se Pone Valor absoluto

Porque un logoritme 100 Rock set ni cro ni un Nº ngation

$$\frac{1}{3} \int \frac{7}{x^3} dx = 7 \int \frac{1}{x^3} dx = 7 \int x^{-3} dx$$

$$= 7 \cdot \frac{x^{-3+1}}{-3+1} = 7 \cdot \frac{x^{-2}}{-2} = \frac{7}{-2 \times x^{2}} + c$$

e)
$$\int \frac{\sqrt[3]{x^3}}{|1|} dx = \frac{1}{|1|} \cdot \int \sqrt[3]{x^3} dx = \frac{1}{|1|} \cdot \int x dx = \frac{1}{|1|} \cdot \frac{x^{3/3} + 1}{\frac{3}{8} + 1}$$
$$= \frac{1}{|1|} \cdot \frac{x}{|1|} = \frac{8 \cdot x}{|1|} \cdot \frac{x}{|1|} = \frac{8 \cdot x}{|1|} \cdot \frac{x}{|1|} = \frac{8 \cdot x}{|1|} \cdot \frac{x}{|1|} = \frac{3/3}{121} + \frac{1}{121}$$

$$\int \left(\frac{1}{x} dx + \frac{7}{x} \right) dx = \int 6e^{x} dx + \int \frac{7}{x} dx = 6 \cdot \int e^{x} dx + 7 \cdot \int \frac{1}{x} dx$$





9)
$$\left(\left(\frac{3}{1+x^2} + 1 \right) dx = \int \frac{3}{1+x^2} dx + \int 1 dx = 3 \int \frac{1}{1+x^2} dx + X \right)$$

$$= 3 \cdot \operatorname{arctg}(x) + x + q$$

$$= 3 \cdot \operatorname{arctg}(x) + q$$

$$= 3$$

$$= \frac{3\times^6}{6} - 7 \sqrt{\frac{1}{1-x^2}} dx + 9 \sqrt{\frac{1}{\cos^2 x}} dx$$



$$= \frac{3 \times 6}{6} - 7 \operatorname{arcsa(x)} + 4 \operatorname{tg(x)} + 4$$





$$(7.e^{x} - \frac{5}{3x} + \frac{2}{x^{4}}) e^{x}$$

$$8e^{x} - \frac{5}{3}\ln|x| - \frac{2}{3x^{2}} + 4$$

$$\int \frac{2}{x^3} dx = 2 \int x^{-4} dx = 2 \frac{x^{-3}}{-3} - \frac{2}{-3x^3}$$

$$\int \frac{S}{X^2} dx = S \cdot \frac{X^{-2t+1}}{-2t+1} = S \cdot \frac{X^{-1}}{-2t+1}$$

$$= \frac{S}{-1}$$

$$= \frac{S}{-1}$$

$$= -2.\cos(x) + 11ancsen(x) + \frac{5}{x} + \frac{4}{9}$$

