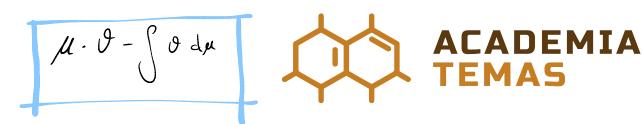
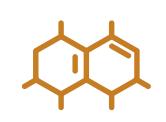
Integrales for Partes





-> Tenemos dos cosos multiplicado J No se Ruede hear de la

forme "CAST-INHEDIATA".



M-D Deriver

dv - o integrat

ARCOTY

ARCOSCA In Polinario

ARCOSCA IN Polinario $dv = \omega = \omega = 1 \, dx$ ARCOSCA

$$= x \cdot Se(x) - \left(Sax dx = x \cdot Sa(x) - (-Cos(x))\right)$$

$$= x - sa(x) + (os(x) + q)$$

$$(2)$$
 $($ X^2 . Ser (x) dx

$$\mu = x^2 \frac{d}{d\mu} = 2xdx$$

$$d\theta = Sex(x)dx \frac{T}{d\mu} = -(-S(x))$$

$$= \left(\frac{1}{\chi^2} \cdot \left(-\cos(\kappa) \right) - \int -\cos(\kappa) \cdot 2 \times dx \right)$$

$$z = x^{2} \cdot (os(x) + 2) \int (os(x) \cdot x) dx$$

$$= -x^2 \cdot (os(x) + 2 \cdot \left[x \cdot se(x) - \int se(x) \cdot 1 dx \right]$$

$$= -x^{2} \cdot \cos(x) + 2 \cdot \left[x \cdot \operatorname{Sa(x)} - (-\cos(x)) \right]$$

$$\mu = X - d\mu = 1 dx$$

$$dv = 6000 dx - v = sex$$





$$\mu = \ln(x) \frac{d}{d} = \frac{1}{x} e^{1x}$$

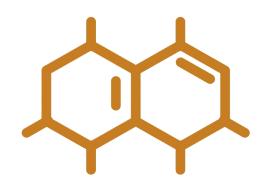
$$du = x^2 dx \frac{T}{3} = \frac{x^3}{3}$$

$$-\ln(x) \cdot \frac{x^3}{3} - \int \frac{x^3}{3} \cdot \frac{1}{x} dx$$

$$= \ln(x) \cdot \frac{x^3}{J} - \frac{1}{J} \cdot \int x^2 dx = \ln(x) \cdot \frac{x^3}{J} - \frac{1}{J} \cdot \frac{x^3}{J}$$



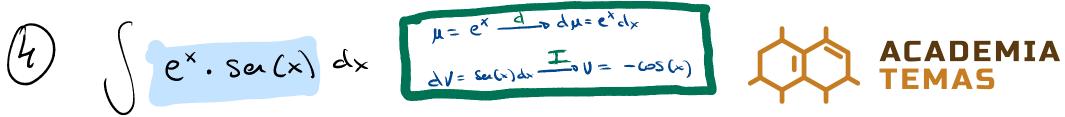
$$= \frac{x^3 \ln(x)}{3} - \frac{x^3}{9} + 4$$



ACADEMIA TEMAS

$$\mu = e^{x} \frac{d}{dx} d\mu = e^{x} dx$$

$$dV = \delta u(x) dx \frac{\mathbf{I}}{dx} V = -\cos(x)$$



$$= e^{x} \cdot (-\cos(x) - \int (-\cos(x) \cdot e^{x} dx)$$

$$= -e^{\times} \cdot (os(x) + \int (os(x) \cdot e^{\times})$$

$$= -e^{\times} \cdot (os(x) + \int (os(x) \cdot e^{\times}) dx = e^{\times} dx$$

$$= -e^{\times} \cdot (os(x) + \int (os(x) \cdot e^{\times}) dx = e^{\times} dx = e^{\times} dx$$

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$$= -e^{\times} \cdot (os(x) + \int (os(x) \cdot e^{\times}) dx = e^{\times} dx = e^{\times} dx$$

$$= -e^{\times} \cdot (oS(x) + \left[e^{\times} \cdot sa(x) - \int sen(x) \cdot e^{\times} dx \right]$$

$$I = -e^{x} \cdot (GS(x) + e^{x} \cdot Se(x) - I$$



$$I = \frac{e^{\times} \cdot (-\cos(x) + \sin(x))}{2}$$

$$\mathcal{S}$$
 $\int e^{x} \cdot x dx$

$$M = x \xrightarrow{d} d\mu = +dx$$

$$du = e^{x} \xrightarrow{I} v = e^{x}$$



$$x \cdot e^{x} - \int e^{x} \cdot 1 dx = x \cdot e^{x} - e^{x} = e^{x} \cdot (x - 1) + 4$$



$$\mu = \ln x \qquad \frac{d}{d\mu} = \frac{1}{x} dx$$

$$dv - 1 dx \qquad V = x$$

$$= h(x) \cdot x - \int x \cdot \frac{1}{x} dx$$

=
$$\ln(x) \cdot x - \int l dx$$

$$= h(x) \cdot x - x$$

$$= h(x) \cdot x - x$$

$$= x \cdot (h(x) - 1) + 4$$

