## EGRAL

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(1) 
$$\int (du + dv - dw) = \int du + \int dv - \int dw.$$

$$\int adv = a \int dv.$$

$$\int dx = x + C.$$

$$ax = x + C.$$

$$\int v^n dv = \frac{v^{n+1}}{n+1}$$

$$\int v^n dv = \frac{v^{n+1}}{n+1} + C.$$

$$\int v^n dv = \frac{v^{n+1}}{n+1}$$

$$\int v^n dv = \frac{v^{n+1}}{n+1}$$

$$\int \frac{v \, dv}{v} = \frac{1}{n+1} + \frac{1}{n+1} +$$

$$v^n dv = \frac{v^n}{n+1} + \frac{v^n$$

$$av = \frac{1}{n+1} + \frac{1}{n+1}$$

 $\int a^{v} dv = \frac{a^{v}}{\ln a} + C.$ 

 $\int \mathrm{sen} \ v \ dv = -\cos v + C.$ 

 $\int \cos v \, dv = \sin v + C.$ 

 $\sec^2 v \, dv = \operatorname{tg} v + C.$ 

 $\int e^{v} dv = e^{v} + C.$ 

$$=\frac{1}{n+1}+$$

 $= \ln v + \ln c = \ln cv.$ 

[Haciendo C = In c.]







(5)

(6)

(7)

(8)

(9)

(10)

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## BLA DE INTEGRALES 2

(11) 
$$\int \csc^2 v \, dv = - \cot v + C.$$

(12) 
$$\int \sec v \, \mathrm{tg} \, v \, dv = \sec v + C.$$

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(13)

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(18)

(19)

$$\int \csc v \cot v \, dv = -\csc v + C.$$

$$\int \operatorname{tg} v \, \mathrm{d}v = -\ln \cos v + C = \ln C$$

$$\int \operatorname{tg} v \, \mathrm{d}v = -\ln \cos v + C = \ln \sec v + C.$$

$$\int \operatorname{tg} v \, \mathrm{d}v = -\ln \cos v + C = 0$$

$$\int \operatorname{ctg} v \, dv = \ln \operatorname{sen} v + C.$$

$$\int \sec v \, dv = \ln \left( \sec v + \operatorname{tg} v \right) + C.$$

$$\int \csc v \ dv = \ln \left(\csc v - \cot v\right) + C.$$

$$\int \frac{dv}{v^2 + a^2} = \frac{1}{a} \arctan \left( \frac{v}{a} + C \right)$$

$$\int \frac{dv}{v^2 - a^2} = \frac{1}{2a} \ln \frac{v - a}{v + a} + C.$$

$$\int \frac{dv}{a^2 - v^2} = \frac{1}{2 a} \ln \frac{a + v}{a - v} + C.$$

(19 a) 
$$\int \frac{dv}{a^2 - v^2} = \frac{1}{2} \ln \frac{a + v}{a - v} + C.$$
(20) 
$$\int \frac{dv}{a^2 - v^2} = \operatorname{arc sen} \frac{v}{v} + C.$$

(20) 
$$\int \frac{dv}{\sqrt{a^2 - v^2}} = \arcsin \frac{v}{a} + C.$$

(21) 
$$\int \frac{dv}{\sqrt{v^2 \pm a^2}} = \ln \left( v + \sqrt{v^2 \pm a^2} \right) + C.$$

(22) 
$$\int \sqrt{u^2 + u^2} \, dv = \frac{v}{2} \sqrt{u^2 - v^2} + \frac{a^2}{2} \arcsin \frac{v}{a} + C.$$

(22) 
$$\int \sqrt{a^2 - v^2} \, dv = \frac{v}{2} \sqrt{a^2 - v^2} + \frac{a^2}{2} \arcsin \frac{v}{a} + C.$$
(23) 
$$\int \sqrt{v^2 \pm a^2} \, dv = \frac{v}{2} \sqrt{v^2 \pm a^2} \pm \frac{a^2}{2} \ln \left( v + \sqrt{v^2 \pm a^2} \right) + C.$$





 $(v^2>a^2)$ 

 $(v^2 < a^2)$