

CALCULO A.P.

TABLA DE INTEGRALES

$\int dx = x + C$ $\int (du + dv - dw) = u + v - w + C$ $\int adv = a \int dv$ $\int v^n dv = \frac{v^{n+1}}{n+1} + C \quad (n \neq -1)$ $\int \frac{dv}{v} = \text{Ln } v + C$ $\int a^v dv = \frac{a^v}{\text{Ln } a} + C$ $\int e^v dv = e^v + C$ $\int \text{sen } v \, dv = -\text{cos } v + C$ $\int \text{cos } v \, dv = \text{sen } v + C$ $\int \text{tg } v \, dv = \text{Ln } \text{se } cv + C$ $\int \text{ctg } v \, dv = \text{Ln } \text{se } cv + C$ $\int \text{sec } v \, dv = \text{Ln } \text{se } cv + \text{tg } v + C$ $\int \text{csc } v \, dv = \text{Ln } \text{csc } v - \text{ctg } v + C$ $\int \text{sec}^2 v \, dv = \text{tg } v + C$ $\int \text{csc}^2 v \, dv = -\text{ctg } v + C$ $\int \text{sec } v \, \text{td } v \, dv = \text{sec } v + C$	$\int \text{csc } v \, \text{ctg } v \, dv = -\text{csc } v + C$ $\int \frac{dv}{\sqrt{a^2 - v^2}} = \text{arcsen } \frac{v}{a} + C$ $\int \frac{dv}{v^2 + a^2} = \frac{1}{a} \text{arctg } \frac{v}{a} + C$ $\int \frac{dv}{v^2 - a^2} = \frac{1}{2a} \text{Ln} \left \frac{v-a}{v+a} \right + C$ $\int \frac{dv}{a^2 - v^2} = \frac{1}{2a} \text{Ln} \left \frac{a+v}{a-v} \right + C$ $\int \frac{dv}{v\sqrt{v^2 + a^2}} = \frac{1}{a} \text{arcsec } \frac{v}{a} + C$ $\int \frac{dv}{\sqrt{v^2 + a^2}} = \text{Ln}(v + \sqrt{v^2 + a^2}) + C$ $\int \text{senh } v \, dv = \text{cosh } v + C$ $\int \text{cosh } v \, dv = \text{senh } v + C$ $\int \text{tg } v \, dv = \text{Ln } \text{cosh } v + C$ $\int \text{ctg } v \, dv = \text{Ln } \text{senh } v + C$ $\int \text{sech}^2 v \, dv = \text{tg } v + C$ $\int \text{csch}^2 v \, dv = -\text{ctg } v + C$ $\int \text{sech } v \, \text{tg } v \, dv = -\text{sech } v + C$ $\int \text{csch } v \, \text{ctg } v \, dv = -\text{csch } v + C$ $\int \frac{dv}{\sqrt{v^2 + a^2}} = \text{senh}^{-1} \frac{v}{a} + C$	$\int \frac{dv}{\sqrt{v^2 - a^2}} = \text{csch}^{-1} \frac{v}{a} + C \quad v > a > 0$ $\int \frac{dv}{a^2 - v^2} = \frac{1}{a} \text{tgh}^{-1} \frac{v}{a} + C \quad v^2 < a^2$ $\int \frac{dv}{v^2 - a^2} = -\frac{1}{a} \text{ctgh}^{-1} \frac{v}{a} + C \quad v^2 > a^2$ $\int \sqrt{a^2 - v^2} \, dv = \frac{v}{2} \sqrt{a^2 - v^2} + \frac{a^2}{2} \text{arcsen} \frac{v}{a} + C$ $\int \sqrt{v^2 + a^2} \, dv = \frac{v}{2} \sqrt{v^2 + a^2} + \frac{a^2}{2} \text{Ln}(v + \sqrt{v^2 + a^2}) + C$ $\int \text{arcsen } v \, dv = v \text{arcsen } v + \sqrt{1 - v^2} + C$ $\int \text{arccos } v \, dv = v \text{arccos } v - \sqrt{1 - v^2} + C$ $\int \text{arctg } v \, dv = v \text{arctg } v - \text{Ln} \sqrt{1 + v^2} + C$ $\int \text{arctg } v \, dv = v \text{arctg } v - \text{Ln} \sqrt{1 + v^2} + C$ $\int \text{arcctg } v \, dv = v \text{arcctg } v + \text{Ln} \sqrt{1 + v^2} + C$ $\int \text{arcsec } v \, dv = v \text{arcsec } v - \text{cosh}^{-1} v + C$ $\int \text{arccsc } v \, dv = v \text{arccsc } v + \text{cosh}^{-1} v + C$ $\int \text{sen}^2 v \, dv = \frac{1}{2} v - \frac{1}{4} \text{sen } 2v + C$ $\int \text{cos}^2 v \, dv = \frac{1}{2} v - \frac{1}{4} \text{sen } 2v + C$ $\int \text{cos}^n v \, \text{sen } v \, dv = -\frac{\text{cos}^{n+1} v}{n+1} + C$ $\int \text{sen } m v \, \text{sen } n v \, dv = -\frac{\text{sen}(m+n)v}{2(m+n)} + \frac{\text{sen}(m-n)v}{2(m-n)} + C$ $\int \text{sen } m v \, \text{cos } n v \, dv = -\frac{\text{cos}(m+n)v}{2(m+n)} - \frac{\text{cos}(m-n)v}{2(m-n)} + C$	$\int \text{sen}^n v \, \text{cos } v \, dv = \frac{\text{sen}^{n+1} v}{n+1} + C$ $\int v \, \text{sen } v \, dv = \text{sen } v - v \text{cos } v + C$ $\int v \, \text{cos } v \, dv = \text{cos } v + v \text{sen } v + C$ $\int e^{av} \, dv = \frac{e^{av}}{a} + C$ $\int b^{av} \, dv = \frac{b^{av}}{a \text{Ln } b} + C$ $\int v e^{av} \, dv = \frac{e^{av}}{a^2} (av - 1) + C$ $\int v^n e^{av} \, dv = \frac{v^n e^{av}}{a} - \frac{n}{a} \int v^{n-1} e^{av} \, dv$ $\int v^n b^{av} \, dv = \frac{v^n b^{av}}{a \text{Ln } b} - \frac{n}{a \text{Ln } b} \int v^{n-1} b^{av} \, dv + C$ $\int \frac{b^{av} \, dv}{v^n} = -\frac{b^{av}}{(n-1)v^{n-1}} + \frac{a \text{Ln } b}{n-1} \int \frac{b^{av} \, dv}{v^{n-1}}$ $\int \text{Ln } v \, dv = v \text{Ln } v - v + C$ $\int v^n \text{Ln } v \, dv = v^{n+1} \left[\frac{\text{Ln } v}{n+1} - \frac{1}{(n+1)^2} \right] + C$ $\int e^{av} \text{Ln } v \, dv = \frac{e^{av} \text{Ln } v}{a} - \frac{1}{a} \int \frac{e^{av}}{v} \, dv$ $\int \frac{dv}{v \text{Ln } v} = \text{Ln}(\text{Ln } v) + C$ $\int_a^b f(x) \, dx = F(x) \Big _a^b = F(b) - F(a)$
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