Formulario para Cálculo Diferencial

i.
$$\frac{dc}{dx} = 0$$
xiv.
$$\frac{d(\arcsin v)}{dx} = \frac{1}{\sqrt{1 - v^2}} \frac{dv}{dx}$$
ii.
$$\frac{dx}{dx} = 1$$
xv.
$$\frac{d(\arcsin v)}{dx} = \frac{-1}{\sqrt{1 - v^2}} \frac{dv}{dx}$$
iii.
$$\frac{d(u + v)}{dx} = \frac{du}{dx} + \frac{dv}{dx}$$
xvi.
$$\frac{d(\arctan v)}{dx} = \frac{1}{1 + v^2} \frac{dv}{dx}$$
iv.
$$\frac{d(c \cdot v)}{dx} = c \frac{dv}{dx}$$
xvii.
$$\frac{d(\operatorname{arccot} v)}{dx} = \frac{-1}{1 + v^2} \frac{dv}{dx}$$
v.
$$\frac{d(u \cdot v)}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$$
xviii.
$$\frac{d(\operatorname{arccsc} v)}{dx} = \frac{-1}{v \sqrt{v^2 - 1}} \frac{dv}{dx}$$
vii.
$$\frac{d(v^n)}{dx} = nv^{n-1} \frac{dv}{dx}$$
xxii.
$$\frac{d(\operatorname{arccsc} v)}{dx} = \frac{-1}{v \sqrt{v^2 - 1}} \frac{dv}{dx}$$
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$$\frac{d(\operatorname{arccsc} v)}{dx} = \frac{1}{v \sqrt{v^2 - 1}} \frac{dv}{dx}$$
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$$\frac{d(\operatorname{arccsc} v)}{dx} = \frac{1}{v \sqrt{v^2 - 1}} \frac{dv}{dx}$$
xxiii.
$$\frac{d(\operatorname{arccsc} v)}{dx} = e^v \frac{dv}{dx}$$
xxiv.
$$\frac{d(\operatorname{arccsc} v)}{dx}$$

xxvi. $\frac{dy}{dx} = \frac{1}{dx}$

xiii. $\frac{d(\csc v)}{dx} = -\csc v \cot v \frac{dv}{dx}$

Formulario para Cálculo Integral

i.
$$\int (dv + dw) = \int dv + \int dw$$
 xvi.
$$\int \frac{dv}{a^2 + v^2} = \frac{1}{a} \arctan\left(\frac{v}{a}\right) + C$$
 ii.
$$\int a \, dv = a \int dv$$
 xvii.
$$\int \frac{dv}{v^2 - a^2} = \frac{1}{2a} \ln\left(\frac{v - a}{v + a}\right) + C$$
 iv.
$$\int v^n \, dv = \frac{v^{n+1}}{n+1} + C$$
 xviii.
$$\int \frac{dv}{\sqrt{a^2 - v^2}} = \arcsin\left(\frac{v}{a}\right) + C$$
 vi.
$$\int a^v \, dv = \frac{a^v}{\ln a} + C$$
 xvii.
$$\int e^v \, dv = e^v + C$$
 xxi.
$$\int c^v \, dv = e^v + C$$
 xxi.
$$\int \sin v \, dv = -\cos v + C$$
 xxi.
$$\int \sin v \, dv = -\cos v + C$$
 xxi.
$$\int \cos^2 v \, dv = \tan v + C$$
 xxii.
$$\int \csc^2 v \, dv = -\cot v + C$$
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 $u = a \sec z \rightarrow a \tan z$

TABLA DE VALORES DE LAS FUNCIONES TRIGONOMÉTRICAS

DEG	0 °	30°	37°	45°	53°	60°	90°	120°	135°	150°	180°	210°	225°	240°	270°	300°	315°	330°	360°
RAD	0	π 6	$\frac{37\pi}{180}$	$\frac{\pi}{4}$	$\frac{53\pi}{180}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	<u>5π</u>	π	$\frac{7\pi}{6}$	$\frac{5\pi}{4}$	$\frac{4\pi}{3}$	$\frac{3\pi}{2}$	<u>5π</u>	$\frac{7\pi}{4}$	$\frac{11\pi}{6}$	2π
Sen0	0	$\frac{1}{2}$	3 5	$\frac{\sqrt{2}}{2}$	<u>4</u> 5	$\frac{\sqrt{3}}{2}$	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	$\frac{-1}{2}$	$\frac{-\sqrt{2}}{2}$	$\frac{-\sqrt{3}}{2}$	-1	$\frac{-\sqrt{3}}{2}$	$\frac{-\sqrt{2}}{2}$	$\frac{-1}{2}$	0
cosθ	1	$\frac{\sqrt{3}}{2}$	4 5	$\frac{\sqrt{2}}{2}$	3 5	$\frac{1}{2}$	0	$\frac{-1}{2}$	$\frac{-\sqrt{2}}{2}$	$\frac{-\sqrt{3}}{2}$	-1	$\frac{-\sqrt{3}}{2}$	$\frac{-\sqrt{2}}{2}$	$\frac{-1}{2}$	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
tanθ	0	√3	3 4	1	4/3	√3	N.E	-√3	-1	$\frac{-\sqrt{3}}{2}$	0	<u>√3</u>	1	√3	N.E	-√3	-1	$\frac{-\sqrt{3}}{3}$	0
cotθ	N.E	√3	4/3	1	3 4	<u>√3</u>	0	$\frac{-\sqrt{3}}{3}$	-1	-√3	N.E	√3	1	<u>√3</u>	0	$\frac{-\sqrt{3}}{3}$	-1	-√3	N.E
Secθ	1	$\frac{2\sqrt{3}}{3}$	5 4	√2	5 3	2	N.E	-2	-√2	$\frac{-2\sqrt{3}}{3}$	-1	$\frac{-2\sqrt{3}}{3}$	-√2	-2	N.E	2	√2	$\frac{2\sqrt{3}}{3}$	1
Csc θ	N.E	2	5	√2	5 4	$\frac{2\sqrt{3}}{3}$	1	$\frac{2\sqrt{3}}{3}$	√2	2	N.E	-2	-√2	$\frac{-2\sqrt{3}}{3}$	-1	$\frac{-2\sqrt{3}}{3}$	-√2	-2	N.E