

1) $y = c$ $y' = 0$	17) $y = \arcsen x$ $y' = \frac{1}{\sqrt{1-x^2}}$	33) $y = \ln U$ $y' = \frac{U'}{U}$
2) $y = x$ $y' = 1$	18) $y = \arccos x$ $y' = \frac{-1}{\sqrt{1-x^2}}$	34) $y = \log_a U$ $y' = \frac{U'}{U} \cdot \log_a e$
3) $y = c \cdot x$ $y' = c$	19) $y = \arctan x$ $y' = \frac{1}{1+x^2}$	35) $y = a^U$ $y' = a^U \cdot \ln a \cdot U'$
4) $y = x^n$ $y' = n \cdot x^{n-1}$	20) $y = \operatorname{arccsc} x$ $y' = \frac{-1}{x\sqrt{x^2-1}}$	36) $y = e^U$ $y' = e^U \cdot U'$
5) $y = \sqrt{x}$ $y' = \frac{1}{2\sqrt{x}}$	21) $y = \operatorname{arcsec} x$ $y' = \frac{1}{x\sqrt{x^2-1}}$	37) $y = \sin U$ $y' = \cos U \cdot U'$
6) $y = \sqrt[n]{x}$ $y' = \frac{1}{n\sqrt[n]{x^{n-1}}}$	22) $y = \operatorname{arccot} x$ $y' = \frac{-1}{1+x^2}$	38) $y = \cos U$ $y' = -\sin U \cdot U'$
7) $y = \ln x$ $y' = \frac{1}{x}$	23) $y = U$ $y' = U'$	39) $y = \tan U$ $y' = \frac{1}{\cos^2 U} \cdot U' = (1 + \tan^2 U) \cdot U' = \sec^2 U \cdot U'$
8) $y = \log_a x$ $y' = \frac{1}{x} \cdot \log_a e$	24) $y = U + V + W$ $y' = U' + V' + W'$	40) $y = \csc U$ $y' = -\csc U \cdot \cot U \cdot U'$
9) $y = a^x$ $y' = a^x \cdot \ln a$	25) $y = c \cdot u$ $y' = c \cdot u'$	41) $y = \sec U$ $y' = \sec U \cdot \tan U \cdot U'$
10) $y = e^x$ $y' = e^x$	26) $y = U \cdot V$ $y' = U' \cdot V + U \cdot V'$	42) $y = \cot U$ $y' = \frac{-1}{\sin^2 U} \cdot U' = -(1 + \cot^2 U) \cdot U' = -\csc^2 U \cdot U'$
11) $y = \sin x$ $y' = \cos x$	27) $y = \frac{c}{u}$ $y' = \frac{-c}{u^2} \cdot U'$	43) $y = \operatorname{arcosen} U$ $y' = \frac{1}{\sqrt{1-U^2}} \cdot U'$
12) $y = \cos x$ $y' = -\sin x$	28) $y = \frac{U}{V}$ $y' = \frac{U' \cdot V - U \cdot V'}{V^2}$	44) $y = \operatorname{arccos} U$ $y' = \frac{-1}{\sqrt{1-U^2}} \cdot U'$
13) $y = \tan x$ $y' = \frac{1}{\cos^2 x} = 1 + \tan^2 x = \sec^2 x$	29) $y = U^n$ $y' = n \cdot U^{n-1} \cdot U'$	45) $y = \operatorname{arctg} U$ $y' = \frac{1}{1+U^2} \cdot U'$
14) $y = \csc x$ $y' = -\csc x \cdot \cot x$	30) $y = U^V$ $y' = U^V \cdot (V' \cdot \ln U + V \cdot \frac{U'}{U})$	46) $y = \operatorname{arccosec} U$ $y' = \frac{-1}{U \cdot \sqrt{U^2-1}} \cdot U'$
15) $y = \sec x$ $y' = \sec x \cdot \tan x$	31) $y = \sqrt{U}$ $y' = \frac{1}{2\sqrt{U}} \cdot U'$	47) $y = \operatorname{arcsec} U$ $y' = \frac{1}{U \cdot \sqrt{U^2-1}} \cdot U'$
16) $y = \cot x$ $y' = \frac{-1}{\operatorname{sen}^2 x} = -(1 + \cot^2 x) = -\csc^2 x$	32) $y = \sqrt[n]{U}$ $y' = \frac{1}{n \cdot \sqrt[n]{U^{n-1}}} \cdot U'$	48) $y = \operatorname{arccotg} U$ $y' = \frac{-1}{1+U^2} \cdot U'$

X= Variable Independiente

U, v, w =Funciones Continuas y Derivables de "y"

C, e, m, n = Constantes

DERIVADAS



MUCEExactas



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1) $\int a \, dx = a \cdot x$	27) $\int \frac{du}{a-u^2} = \frac{1}{2a} \ln \left(\frac{a+u}{a-u} \right) + c$
2) $\int (u \pm v \pm w \pm \dots) \, dx = \int u \, dx \pm \int v \, dx \pm \int w \, dx \pm \dots$	28) $\int \frac{du}{u^n} = \frac{-1}{(n-1) \cdot u^{n-1}} + c \quad n \neq 1$
3) $\int u^n \cdot du = \frac{u^{n+1}}{n+1} + c \quad n \neq -1$	29) $\int \frac{du}{\sqrt{u}} = 2\sqrt{u} + c$
4) $\int e^u \cdot du = e^u + c$	30) $\int (u \cdot \sin u) \, du = \sin u - u \cdot \cos u + c$
5) $\int a^u \cdot du = e^{u \cdot \ln a} du = \frac{e^{u \cdot \ln a}}{\ln a} = \frac{a^u}{\ln a} + c \quad a > 0, a \neq 1$	31) $\int (u \cdot \cos u) \, du = \cos u + u \cdot \sin u + c$
6) $\int \ln u \cdot du = u \cdot \ln u - u + c$	32) $\int \frac{du}{\cos^2 u} = -\tan u + c$
7) $\int \log u \cdot du = \log e (u \cdot \ln u - u) + c$	33) $\int \frac{du}{\sin^2 u} = -\cot u + c$
8) $\int \sin u \cdot du = -\cos u + c$	34) $\int \frac{du}{\sqrt{1-u^2}} = \arcsen u + c$
9) $\int \cos u \cdot du = \sin u + c$	35) $\int \frac{du}{\sqrt{a^2-u^2}} = \arcsen \frac{u}{a} + c$
10) $\int \tan u \cdot du = \ln \sec u = -\ln \cos u$	36) $\int \frac{-du}{\sqrt{1-u^2}} = \arccos u + c$
11) $\int \cot u \cdot du = \ln \sin u + c$	37) $\int \frac{du}{1+u^2} = \arctan u + c$
12) $\int \sec u \cdot du = \ln(\sec u + \tan u) + c = \ln \tan \left(\frac{u}{2} + \frac{\pi}{4} \right) + c$	38) $\int \frac{-du}{1+u^2} = \operatorname{arc} \cot u + c$
13) $\int \operatorname{cosec} u \cdot du = \ln(\csc u - \cot u) + c = \ln \tan \frac{u}{2} + c$	39) $\int \frac{du}{\sqrt{u^2+a^2}} = \ln \left(u + \sqrt{u^2+a^2} \right) + c$
14) $\int \sin^2 u \cdot du = \frac{u}{2} - \frac{\sin 2u}{4} + c = \frac{1}{2} (u - \sin u \cdot \cos u) + c$	40) $\int \frac{du}{\sqrt{u^2-a^2}} = \ln(u + \sqrt{u^2-a^2}) + c$
15) $\int \cos^2 u \cdot du = \frac{u}{2} + \frac{\sin 2u}{4} = \frac{1}{2} (u + \sin u \cdot \cos u) + c$	41) $\int \frac{1}{1+\cos u} \cdot du = \tan \frac{u}{2} + c$
16) $\int \tan^2 u \cdot du = \tan u - u + c$	42) $\int e^{2 \cdot x} \cdot dx = \frac{e^{2 \cdot x}}{2} + c$
17) $\int \cot^2 u \cdot du = -\cot u - u + c$	 <p>Todo el año Trabajando por vos!</p> <p>La NUEVA FUERZA de los ESTUDIANTES</p>
18) $\int \sec^2 u \cdot du = \tan u + c$	
19) $\int \operatorname{cosec}^2 u \cdot du = -\cot u + c$	
20) $\int \sec u \cdot \tan u \cdot du = \sec u + c$	
21) $\int \operatorname{cosec} u \cdot \cot u \cdot du = -\csc u + c$	
22) $\int \sqrt{u} \cdot du = \frac{u^{3/2}}{3/2} + c$	
23) $\int \sqrt{a^2-u^2} \cdot du = \frac{a^2}{2} \cdot \arctan \frac{u}{a} + \frac{u}{2} \cdot \sqrt{a^2-u^2} + c$	
24) $\int \sqrt{a^2+u^2} \cdot du = \frac{a^2}{2} \ln(u + \sqrt{u^2+a^2}) + \frac{u}{2} \sqrt{a^2+u^2} + c$	
25) $\int \frac{du}{u^2+a^2} = \frac{1}{a} \arctan \frac{u}{a} + c$	
26) $\int \frac{du}{u^2-a^2} = \frac{1}{2a} \ln \left(\frac{u-a}{u+a} \right) + c$	

TABLA DE INTEGRALES