

Differentiation

f(x)	f'(x)
sin x	cos x
cos x	- sin x
tan x	sec ² x
cosec x	- cosec x cot x
sec x	sec x tan x
cot x	- cosec ² x
ln x	1 / x

Trig Identitys

cosec x	1 / sin x
sec x	1 / cos x
cot x	1 / tan x
cos ² x + sin ² x	1
sec ² x	1 + tan ² x
cosec ² x	1 + cot ² x

Inverse a function

1. Replace f(x) with y
2. Rearrange for x
3. Replace x with f⁻¹(x) and y with x
4. Swap the domain and range of the function

Differentiation rules

If y = f(u) and u = g(x) dy/dx = dy/du x du/dx

If y = u(x)v(x) dy/dx = u(dv/dx) + v(du/dx)

If y = u(x)/v(x) dy/dx =

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