

## C3 Cheat Sheet

by [deleted] via cheatography.com/29733/cs/8782/

Differentation	
f(x)	f'(x)
sin x	COS X
cos x	- sin x
tan x	sec <sup>2</sup> x
cosec x	- cosec x cot x
sec x	sec x tan x
cot x	- cosec <sup>2</sup> 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 <sup>2</sup> x	1 + tan <sup>2</sup> x
cosec <sup>2</sup> 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		

Differentitation rules	
If $y = f(u)$ and $u = g(x)$	$dy/dx = dy/du \times du/dx$
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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