

Addition

$\cos(A \pm B) =$
$\sin(A \pm B) =$
$\tan(A \pm B) =$

Double Angle

$\sin 2x =$
$\cos 2x =$
$\cos 2x =$
$\cos 2x =$
$\tan 2x =$

Standard Functions - Calculus

$\sin x$	$\xrightarrow{\frac{d}{dx}}$	
$\cos x$		
$\tan x$		
$\cot x$		
$\sec x$		
$\operatorname{cosec} x$	$\int dx \xleftarrow{\hspace{1cm}}$	
$\ln x$		
$e^x$		
$a^x$		

Some hints:

$$\frac{x-1}{x} = \frac{x}{x} - \frac{1}{x} \quad \textit{etc.}$$

$$\frac{\sin x-1}{\cos^2 x} = \frac{\sin x}{\cos^2 x} - \frac{1}{\cos^2 x}$$

$$\frac{x}{x^2-3}$$

$$\cos x \sin^4 x$$

$$\frac{2}{(x+3)(x-2)}$$

$$\frac{1}{x^2+x}$$

$$\frac{x+1}{x-1}$$

$$\frac{x^2}{x+1}$$

Pythagorean


Rearranged Double Angle

$\sin^2 x =$
$\cos^2 x =$

Cofunction

	eg. $\sin 25 =$
	eg. $\cos 75 =$

Product

$uv$	
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Quotient

$\frac{u}{v}$	
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Parametric Diff.

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Subst. checklist

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Integration by parts

	takes priority for u
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Parametric

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Differential eqns

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Double Angle

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Standard Functions - Calculus

	$\begin{matrix} \longrightarrow \\ \frac{d}{dx} \end{matrix}$	$\cos x$
		$-\sin x$
		$\sec^2 x$
		$-\operatorname{cosec}^2 x$
		$\sec x \tan x$
		$-\operatorname{cosec} x \cot x$
		$\frac{1}{x}$
	$\begin{matrix} \int dx \\ \longleftarrow \end{matrix}$	$e^x$
		$\ln a \cdot a^x$

Some hints:

$$\frac{x-1}{x} = \frac{x}{x} - \frac{1}{x} \quad etc.$$

$$\frac{\sin x - 1}{\cos^2 x} = \frac{\sin x}{\cos^2 x} - \frac{1}{\cos^2 x}$$

$$\frac{x}{x^2 - 3}$$

$$\cos x \sin^4 x$$

$$\frac{2}{(x+3)(x-2)}$$

$$\frac{1}{x^2 + x}$$

$$\frac{x+1}{x-1}$$

$$\frac{x^2}{x+1}$$

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