

USEFUL TRIGONOMETRIC IDENTITIES

Definitions

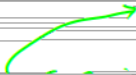
$$\tan x = \frac{\sin x}{\cos x}$$

$$\sec x = \frac{1}{\cos x}$$

$$\operatorname{cosec} x = \frac{1}{\sin x}$$

$$\cot x = \frac{1}{\tan x}$$

You can not use



the C on the

You can not use

rearranging the

in the side A cos B

in the other

USEFUL TRIGONOMETRIC IDENTITIES

Unit circle properties

$\cos(x) = \cos(x)$	$\sin(x) = \sin(x)$	$\tan(x) = \tan(x)$
$\cos(-x) = \cos(x)$	$\sin(-x) = -\sin(x)$	$\tan(-x) = -\tan(x)$
$\cos(2\pi - x) = \cos(x)$	$\sin(2\pi - x) = -\sin(x)$	$\tan(2\pi - x) = -\tan(x)$
$\cos(2\pi + x) = \cos(x)$	$\sin(2\pi + x) = \sin(x)$	$\tan(2\pi + x) = \tan(x)$