

There are 3 main trigonometric functions:
$\llcorner\operatorname{Sin}$
$\llcorner\mathrm{Cos}$
L Tan

Trigonometric identities
$\llcorner\operatorname{Sin} \theta=1 / \operatorname{Cosec} \theta$ or $\operatorname{Cosec} \theta=1 / \operatorname{Sin} \theta$
$\llcorner\operatorname{Cos} \theta=1 / \operatorname{Sec} \theta$ or $\operatorname{Sec} \theta=1 / \operatorname{Cos} \theta$
L $\operatorname{Tan} \theta=1 / \operatorname{Cot} \theta$ or $\operatorname{Cot} \theta=1 / \operatorname{Tan} \theta$
$\left\llcorner\sin ^{2} \boldsymbol{a}+\cos ^{2} \boldsymbol{a}=1\right.$
$\left\llcorner\quad 1+\tan ^{2} \boldsymbol{a}=\sec ^{2} \boldsymbol{a}\right.$
$\left\llcorner\operatorname{cosec}^{2} \boldsymbol{a}=1+\cot ^{2} \boldsymbol{a}\right.$
Trigonometric graphs - these can be both in degrees and radians

Sin Graph




You can use the following rules to find $\sin , \cos$, and tan of any positive or negative angle using the corresponding acute angle made with the $x$-axis.


