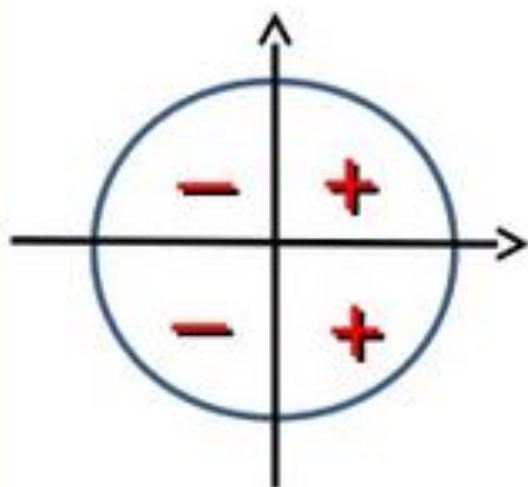
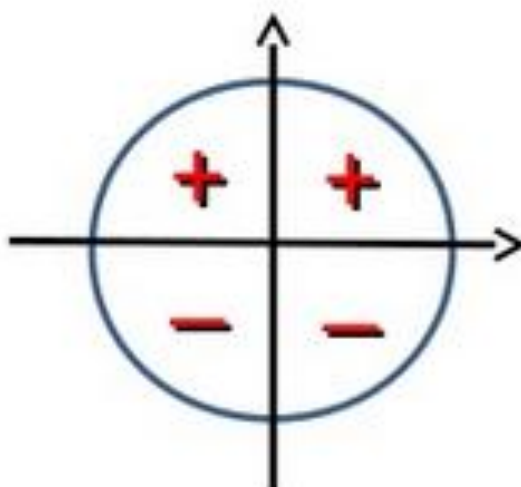


VARIAÇÕES DOS SINAIS NOS QUADRANTES

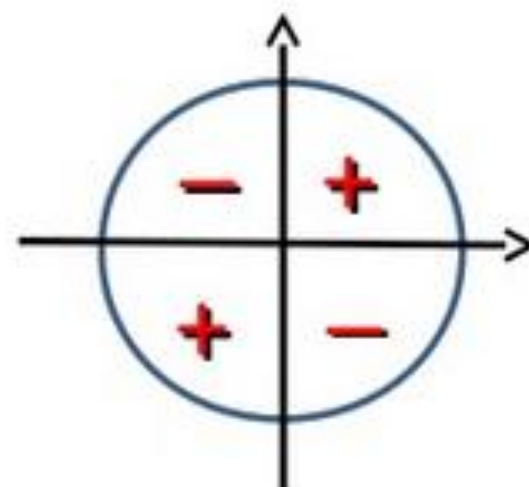
**COSSENO
e
SECANTE**



**SENO
e
COSSECANTE**



**TANGENTE
e
COTANGENTE**



$$\tan A = \frac{\text{sen}A}{\cos A} = \frac{\text{cateto oposto}}{\text{cateto adjacente}}$$

$$\sec A = \frac{1}{\cos A} = \frac{\text{hipotenusa}}{\text{cateto adjacente}}$$

$$\cot A = \frac{\cos A}{\text{sen}A} = \frac{\text{cateto adjacente}}{\text{cateto oposto}}$$

Tabela de Entes Trigonométricos

arco	0°	30°	45°	60°	90°	180°	270°	360°
rad	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	π	$\frac{2\pi}{3}$	2π
seno	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	0	-1	0
cosseno	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	-1	0	1
tangente $\frac{\text{sen } \Theta}{\text{cos } \Theta}$	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	---	0	---	0

$$\text{Seno} = \frac{\text{Cateto Oposto}}{\text{Hipotenusa}}$$

$$\text{Cosseno} = \frac{\text{Cateto Adjacente}}{\text{Hipotenusa}}$$

$$\text{Tangente} = \frac{\text{Cateto Oposto}}{\text{Cateto Adjacente}}$$

Sinal das funções trigonométricas				
	$1^{\circ}Q$	$2^{\circ}Q$	$3^{\circ}Q$	$4^{\circ}Q$
$\text{sen}(\alpha)$	+	+	−	−
$\text{cos}(\alpha)$	+	−	−	+
$\text{tg}(\alpha)$	+	−	+	−
$\text{cotg}(\alpha)$	+	−	+	−
$\text{sec}(\alpha)$	+	−	−	+
$\text{cossec}(\alpha)$	+	+	−	−