TRIÁNGULOS CUALESQUIERA
$Área = \frac{base \cdot altura}{2}$ ó $Área = \sqrt{p(p-a)(p-b)(p-c)}$ siendo $p = \frac{a+b+c}{2}$ (semiperímetro)
$A + B + C = 180º$
$a^2 = b^2 + c^2 - 2\,b\,c \cdot \cos A$ (th. del coseno)
$\frac{a}{\text{sen } A} = \frac{b}{\text{sen } B} = \frac{c}{\text{sen } C}$ (th. del seno)

TRIÁNG. RECTÁNGULOS
$a^2 = b^2 + c^2$ (T. de Pitágoras)
sen B $= \frac{cateto\ opuesto}{hipotenusa}$
cos B $= \frac{cateto\ contiguo}{hipotenusa}$
tag B $= \frac{cateto\ opuesto}{cateto\ contiguo}$

TRIGONOMETRÍA

$\text{tag}\alpha = \frac{\text{sen}\alpha}{\cos\alpha}$ $\text{cotag}\alpha = \frac{\cos\alpha}{\text{sen}\alpha}$ $\sec\alpha = \frac{1}{\cos\alpha}$ $\text{cosec}\alpha = \frac{1}{\text{sen}\alpha}$ $360º = 2\pi$ rad. $= 400^g$

sen $(90º-\alpha) = \cos\alpha$	cos $(90º-\alpha) =$ sen α
sen $(90º+\alpha) = \cos\alpha$	cos $(90º+\alpha) = -$sen α
sen $(180º-\alpha) =$ sen α	cos $(180º-\alpha) = -\cos\alpha$
sen $(180º+\alpha) = -$sen α	cos $(180º+\alpha) = -\cos\alpha$
sen $(360º-\alpha) = -$sen α	cos $(360º-\alpha) = \cos\alpha$
sen $(-\alpha) = -$sen α	cos $(-\alpha) = \cos\alpha$
sen $(360º+\alpha) =$ sen α	cos $(360º+\alpha) = \cos\alpha$

	Ángulo doble:	**Suma de ángulos:**
$\text{sen}^2\alpha + \cos^2\alpha = 1$	$\text{sen } 2\alpha = 2 \cdot \text{sen } \alpha \cdot \cos\alpha$	$\text{sen } (\alpha+\beta) = \text{sen } \alpha \cos\beta + \cos\alpha \text{ sen}\beta$
$\text{tag}^2\alpha + 1 = \sec^2\alpha$	$\cos 2\alpha = \cos^2\alpha - \text{sen}^2\alpha$	$\cos (\alpha+\beta) = \cos\alpha\cos\beta - \text{sen } \alpha \text{ sen}\beta$
$1 + \text{cotag}^2\alpha = \text{cosec}^2\alpha$	$\text{tag } 2\alpha = \frac{2 \cdot \text{tag } \alpha}{1 - \text{tag}^2\alpha}$	$\text{tag } (\alpha+\beta) = \frac{\text{tag } \alpha + \text{tag } \beta}{1 - \text{tag}\alpha \text{ tag } \beta}$

	Ángulo mitad:	**Diferencia de ángulos:**
$\text{tag}\alpha = \frac{\text{sen}\alpha}{\cos\alpha}$ $\text{cotag}\alpha = \frac{\cos\alpha}{\text{sen}\alpha} = \frac{1}{\text{tag}\alpha}$ $\sec\alpha = \frac{1}{\cos\alpha}$ $\text{cosec}\alpha = \frac{1}{\text{sen}\alpha}$	$\text{sen } \frac{\alpha}{2} = \pm\sqrt{\frac{1-\cos\alpha}{2}}$	$\text{sen } (\alpha-\beta) = \text{sen } \alpha\cos\beta - \cos\alpha \text{ sen}\beta$
	$\cos \frac{\alpha}{2} = \pm\sqrt{\frac{1+\cos\alpha}{2}}$	$\cos (\alpha-\beta) = \cos\alpha\cos\beta + \text{sen } \alpha \text{ sen}\beta$
	$\text{tag } \frac{\alpha}{2} = \pm\sqrt{\frac{1-\cos\alpha}{1+\cos\alpha}}$	$\text{tag } (\alpha-\beta) = \frac{\text{tag } \alpha - \text{tag } \beta}{1 + \text{tag}\alpha \text{ tag } \beta}$

$\text{sen } A + \text{sen B} = 2 \text{ sen } \frac{A+B}{2} \cdot \cos\frac{A-B}{2}$	$\text{sen } A - \text{sen B} = 2 \cos \frac{A+B}{2} \cdot \text{sen}\frac{A-B}{2}$
$\cos A + \cos \text{B} = 2 \cos \frac{A+B}{2} \cdot \cos\frac{A-B}{2}$	$\cos A - \cos \text{B} = -2 \text{ sen } \frac{A+B}{2} \cdot \text{sen}\frac{A-B}{2}$