

t r i g o n o m e t r i a

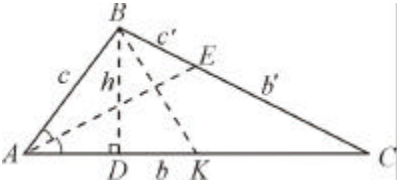
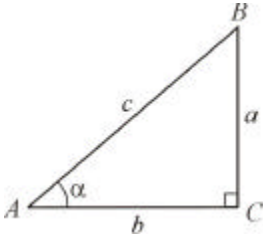
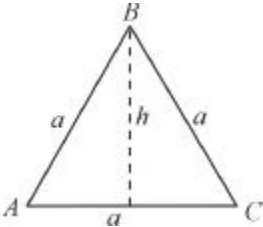
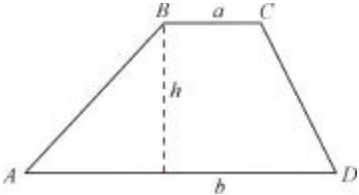
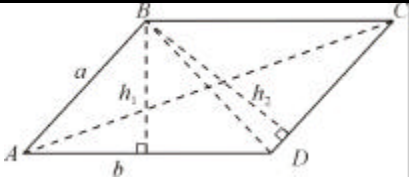
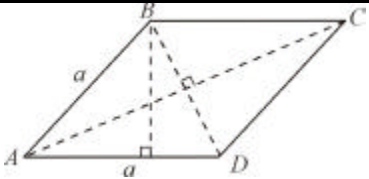
t r i g o n o m e t r i u l i f u n q c i e b i s m n i S v n e l o b a T a c x r i l i a r g u m e n t i s z o g i e r T i m n i S v n e l o b i s T v i s

a	$0 = 0^\circ$	$\frac{p}{6} = 30^\circ$	$\frac{p}{4} = 45^\circ$	$\frac{p}{3} = 60^\circ$	$\frac{p}{2} = 90^\circ$	$p = 180^\circ$	$\frac{3p}{2} = 270^\circ$
$\sin a$	0	$1/2$	$\sqrt{2}/2$	$\sqrt{3}/2$	1	0	-1
$\cos a$	1	$\sqrt{3}/2$	$\sqrt{2}/2$	$1/2$	0	-1	0
$\operatorname{tga} (\tan)$	0	$\sqrt{3}/3$	1	$\sqrt{3}$	-	0	-
ctga	-	$\sqrt{3}$	1	$\sqrt{3}/3$	0	-	0

t r i g o n o m e t r i u l i f u n q c i e b i s g a m o s a x v a i m a v e a r g u m e n t i s d a n a r C e n i t r i g o n o m e t r i u l i f u n q c i e b i s s a S u a l e b i T

a	$\sin a$	$\cos a$	tga	ctga
$\sin a = a$	a	$\pm \sqrt{1-a^2}$	$\pm \frac{a}{\sqrt{1-a^2}}$	$\pm \frac{\sqrt{1-a^2}}{a}$
$\cos a = a$	$\pm \sqrt{1-a^2}$	a	$\pm \frac{\sqrt{1-a^2}}{a}$	$\pm \frac{a}{\sqrt{1-a^2}}$
$\operatorname{tga} = a$	$\pm \frac{a}{\sqrt{1+a^2}}$	$\pm \frac{1}{\sqrt{1+a^2}}$	a	$\frac{1}{a}$
$\operatorname{ctga} = a$	$\pm \frac{1}{\sqrt{1+a^2}}$	$\pm \frac{a}{\sqrt{1+a^2}}$	$\frac{1}{a}$	a

g e o m e t r i a

samkuTxed i	mar Tkutxa samkuTxed i
 $S = \frac{1}{2}bh$, $h = BD$ – simaR lea $\frac{b'}{b} = \frac{c'}{c}$, AE – biseqtr isaa $AK = KC$, BK – medianaa	 $S = \frac{1}{2}ab$ $a = c \sin \alpha$ $b = c \cos \alpha$ $a^2 + b^2 = c^2$ (pi Tago ras Teo rema)
t o l g v e r d a samkuTxed i	t r a p e c i a
 $S = \frac{\sqrt{3}}{4}a^2$ $h = \frac{\sqrt{3}}{2}a$	 $S = \frac{a+b}{2}h$ Tu $AB=CD$, maSin trapecia to l f e r d a a $AC=BD$, $\angle A = \angle D$
p a r a l e l o g r a m i	r o m b i
 $AC^2 + BD^2 = 2(a^2 + b^2)$ $S = bh_1 = ah_2$	 $AC^2 + BD^2 = 4a^2$ $S = ah$

