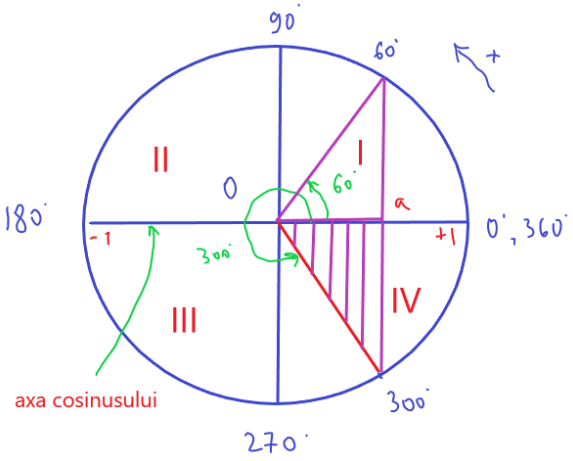
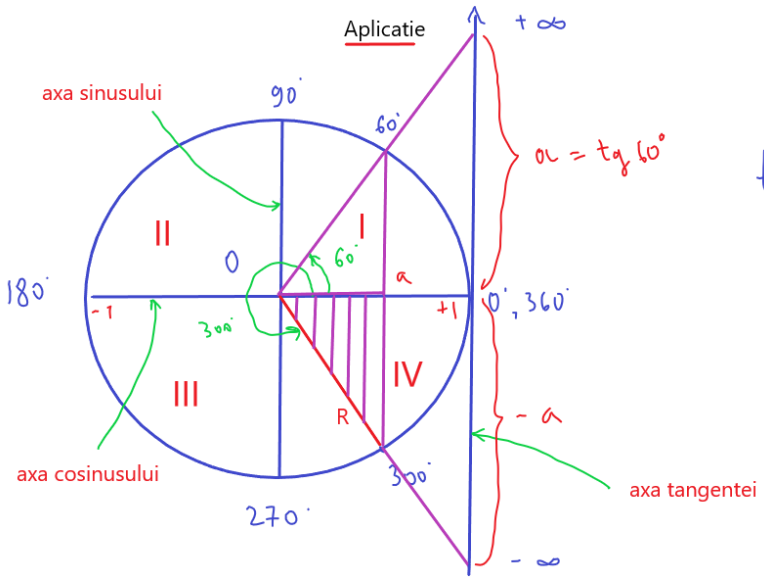
Reducerea la primul cadran. Aplicatii



$\cos 300^\circ = \cos 60^\circ = \frac{1}{2} = a$

Aplicatie



$tg\,300^\circ = -tg\,60^\circ = -\sqrt{3}$

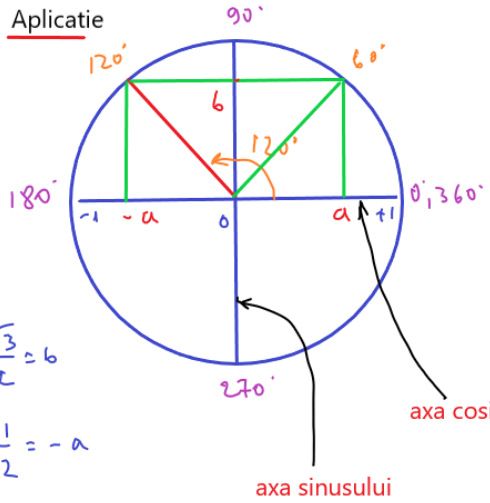
Aplicatie

Sa se determine :

a) $\sin 120^\circ$, $\cos 120^\circ$

b) $\sin 210^\circ$, $\cos 210^\circ$

c) $\sin 330^\circ$, $\cos 330^\circ$



	30°	45°	60°
sin	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$
cos	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$
tg	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$
ctg	$\sqrt{3}$	1	$\frac{1}{\sqrt{3}}$

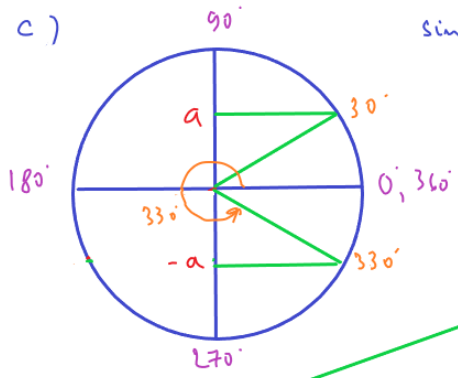
Rezolvare

a) $\sin 120^\circ = \sin 60^\circ = \frac{\sqrt{3}}{2} = b$

(reducere la primul cadran)

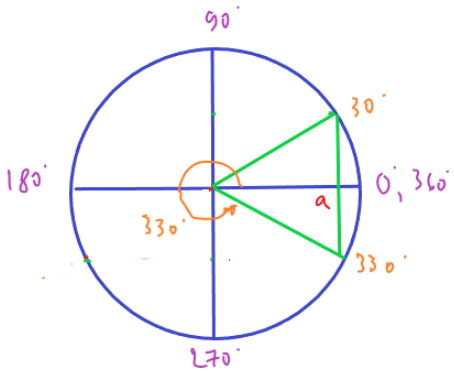
$\cos 120^\circ = -\cos 60 = -\frac{1}{2} = -a$

c)



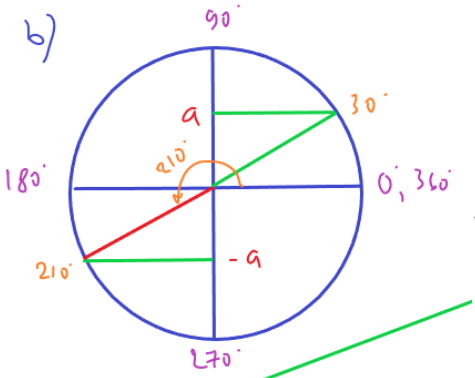
$\sin 330^\circ = -\sin 30^\circ = -\frac{1}{2} = -a$

	30°	45°	60°
sin	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$
cos	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$
tg	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$
ctg	$\sqrt{3}$	1	$\frac{1}{\sqrt{3}}$



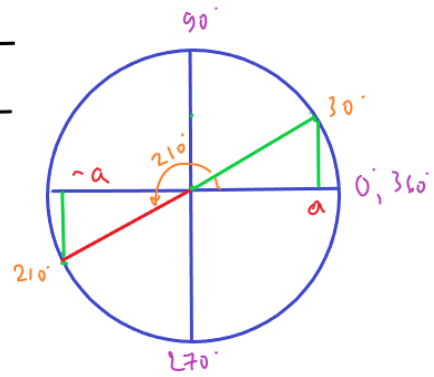
$\cos 330^\circ = \cos 30^\circ = \frac{\sqrt{3}}{2} = a$

b)



$\sin 210^\circ = -\sin 30^\circ = -\frac{1}{2} = -a$

	30°	45°	60°
sin	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$
cos	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$
tg	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$
ctg	$\sqrt{3}$	1	$\frac{1}{\sqrt{3}}$



$\cos 210^\circ = -\cos 30^\circ = -\frac{\sqrt{3}}{2} = -a$