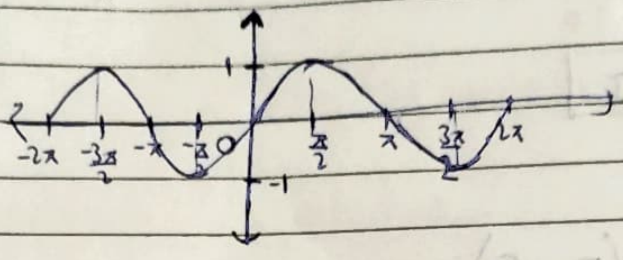
* $\cos\theta = \sin\left(\frac{\pi}{2} - \theta\right)$

or $\sin\theta = \cos\left(\frac{\pi}{2} - \theta\right)$

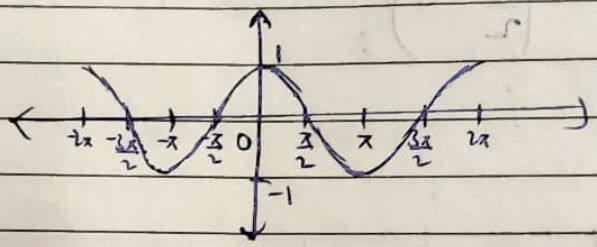
~~bgj~~

Quadrant	$\sin(x)$	$\cos(x)$
I $0 \le x < \frac{\pi}{2}$	$[0, 1)$	$(0, 1]$
II $\frac{\pi}{2} \le x < \pi$	$(0, \Pi]$	$(-1, 0]$
III $\pi \le x < \frac{3\pi}{2}$	~~$[0$~~, $(-1, 0]$	$[-1, 0)$
IV $\frac{3\pi}{2} \le x < 2\pi$	$[-1, 0)$	$[0, 1)$

Graph of sinx -



Graph of cosx -



Formulas -

$\cos(x+y) = \cos x \cos y - \sin x \sin y$

$\cos(x-y) = \cos x \cos y + \sin x \sin y$