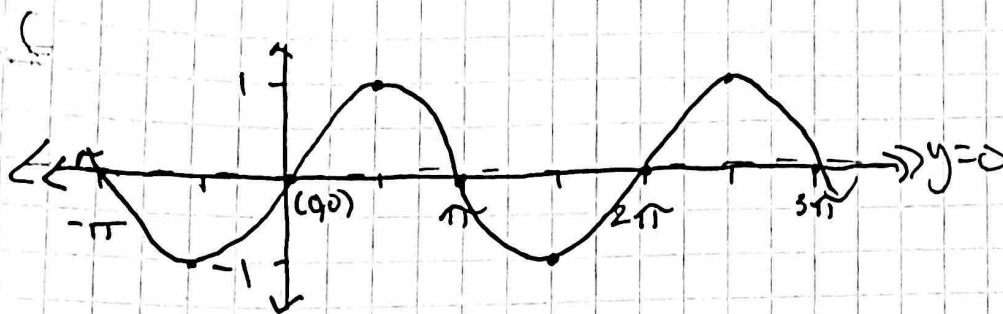


$$y = \sin x$$

MUMDM

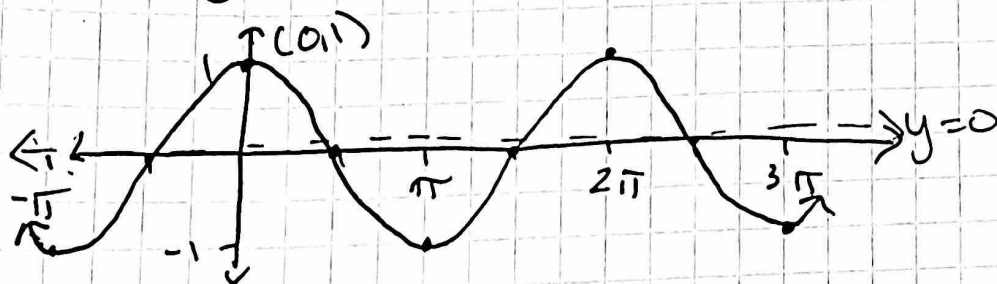
CP -



- $(0,0)$ $(\frac{\pi}{2}, 1)$
- $(\pi, 0)$ $(\frac{3\pi}{2}, -1)$
- $(2\pi, 0)$

$$y = \cos x$$

CP -



- $(0,1)$ $(\frac{\pi}{2}, 0)$ $(\pi, -1)$
- $(\frac{3\pi}{2}, 0)$ $(2\pi, 1)$

ex) Graph $f(x) = \cos x$ + $g(x) = -3\cos x$ on same axis. Then describe the difference + find the period + amplitude of $g(x)$.

$g(x)$ is reflected over the x-axis and is vertically expanded

$$\text{Period: } \frac{2\pi}{1} = 2\pi$$

$$\text{CPS} = \frac{2\pi}{4} = \frac{\pi}{2}$$

$$\text{Amp: } 3$$

