

$$\sin^{-\frac{\pi}{3}}$$

$$\sin 5\pi = \sin 3\pi = \sin \pi = 0$$

$$\sin^{-\frac{19\pi}{6}} = \sin^{-\frac{7\pi}{6}} = \sin \frac{5\pi}{6}$$

$$\frac{\sqrt{2}}{2}$$

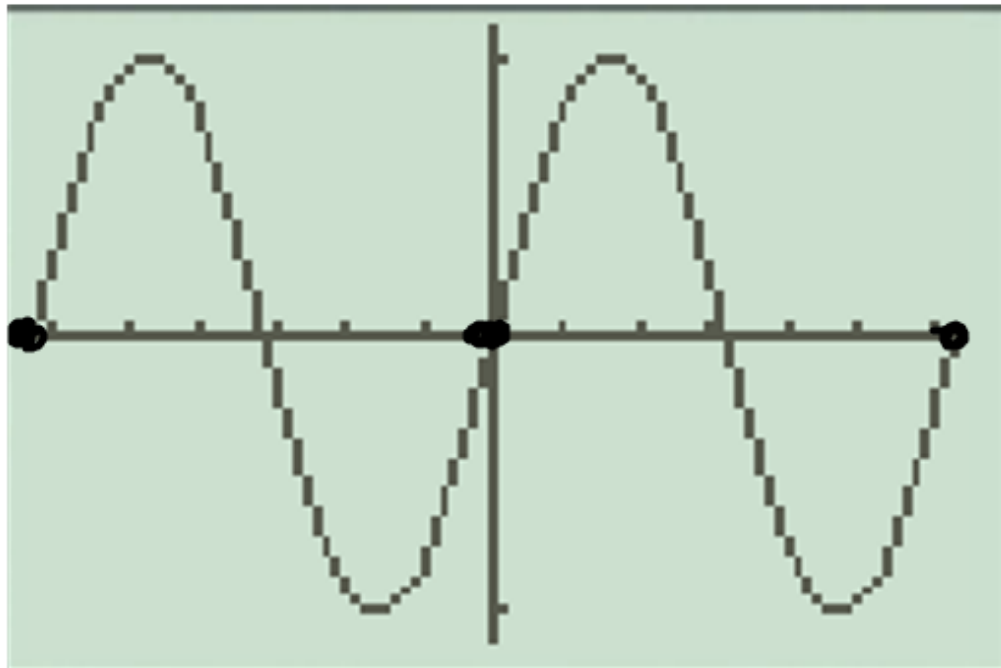
$$4) \left(-\frac{4}{5}, -\frac{3}{5} \right)$$

$x \quad y$

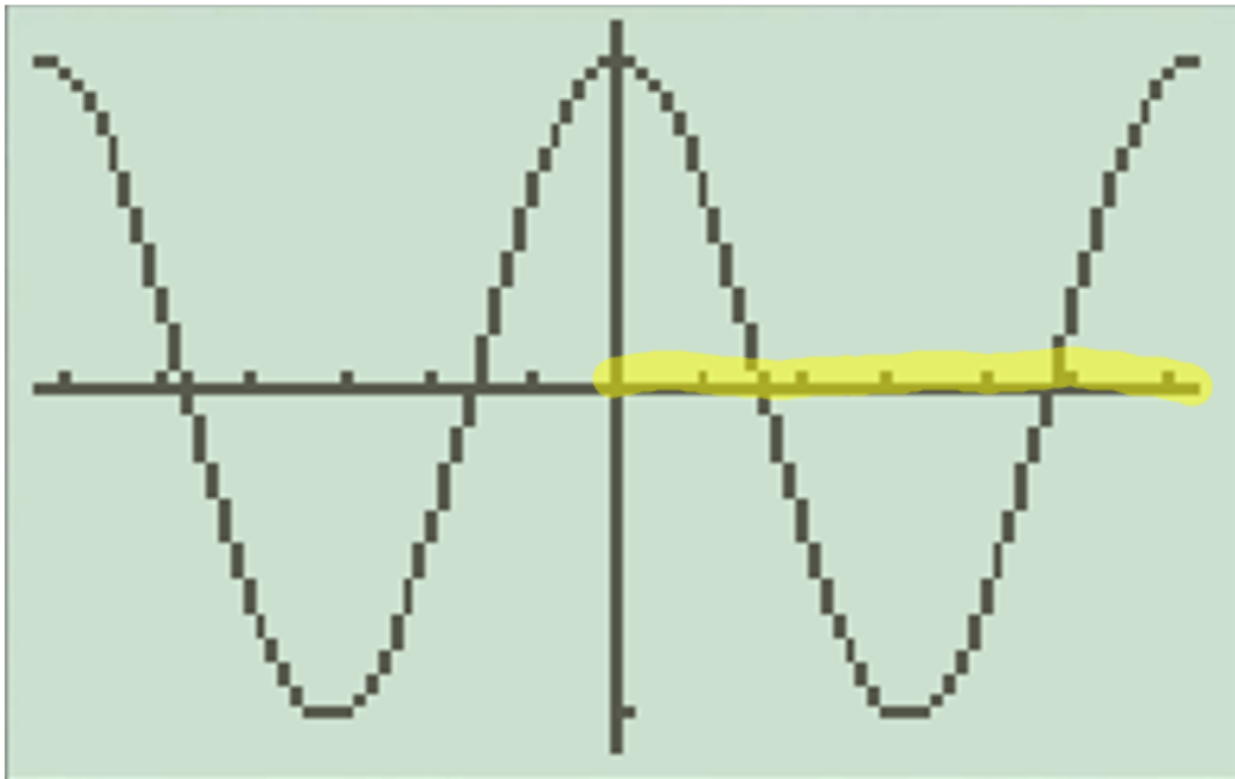
$$\sin \theta = y = -\frac{3}{5}$$

Domain and Period + Range

$\sin \theta \rightarrow$ Domain $\rightarrow \mathbb{R}$
Range $\rightarrow [-1, 1]$
Period $\rightarrow 2\pi$

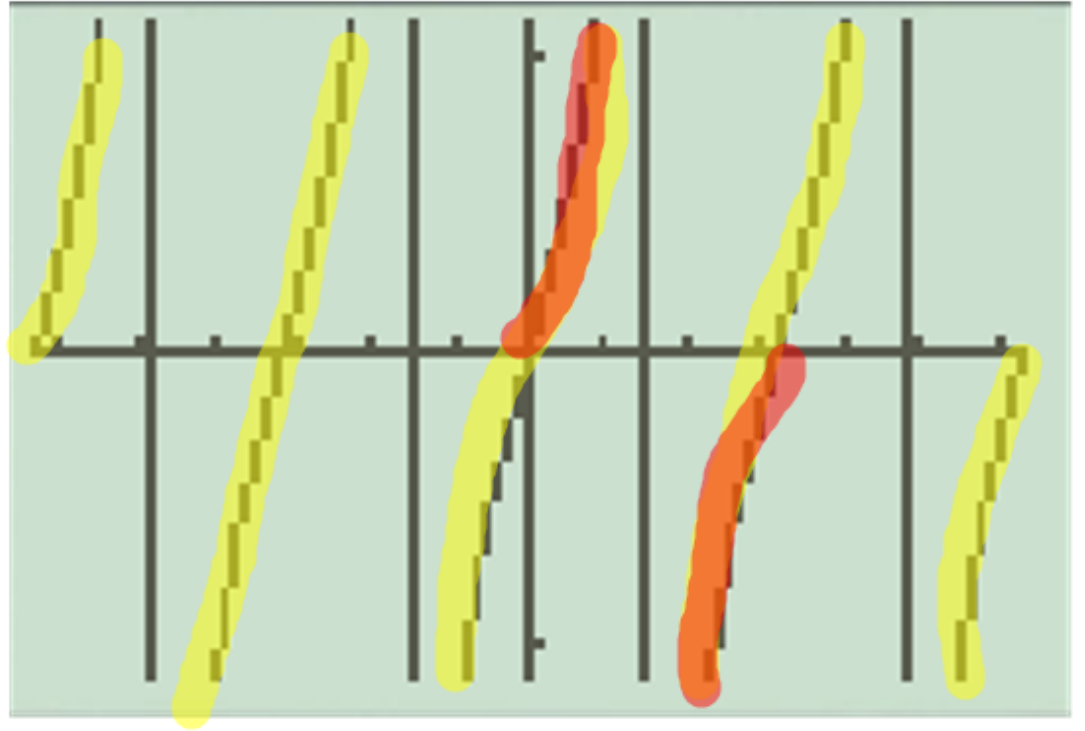


$\cos \theta \rightarrow$
Domain $\rightarrow \mathbb{R}$
Range $\rightarrow [-1, 1]$
Period $\rightarrow 2\pi$



Tan $\theta \rightarrow$ Domain $\rightarrow \theta \neq \frac{\pi}{2} + 2\pi x, \frac{3\pi}{2} + 2\pi x$
Range $\rightarrow \mathbb{R}$
Period $\rightarrow \pi$

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$



Calculator work

$$\sin \frac{\pi}{8} = .3826$$

$$\begin{aligned} \csc \frac{\pi}{8} &= \frac{1}{\sin \frac{\pi}{8}} \\ &= 2.613 \end{aligned}$$

Hw pg 265

45, 51, 57, #61-64 all