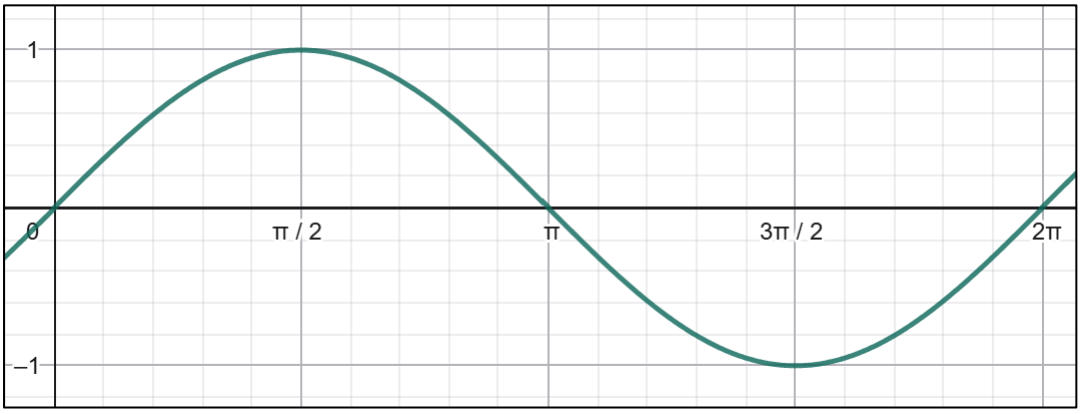
Gradient Functions of $y = \sin x$ and $y = \cos x$

Part One

Below is the graph of $y = \sin x$ for $0 \leq \pi \leq 2\pi$



a) Estimate the gradient at the following values of x

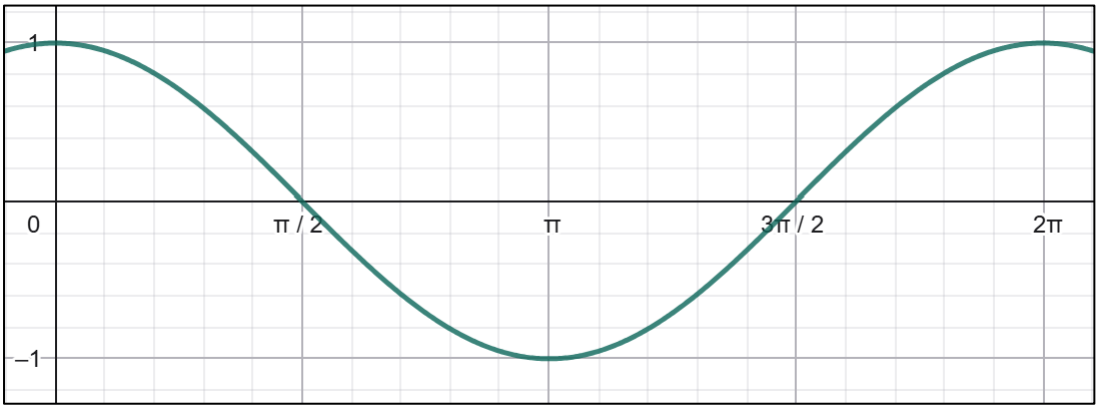
x	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
Gradient					

b) Hence sketch the gradient function of $y = \sin x$ on the axes above.

c) $\frac{d}{dx}(\sin x) =$

Part Two

Below is the graph of $y = \cos x$ for $0 \leq \pi \leq 2\pi$



a) Estimate the gradient at the following values of x

x	0	$\frac{\pi}{2}$	π	$\frac{3\pi}{2}$	2π
Gradient					

b) Hence sketch the gradient function of $y = \cos x$ on the axes above.

c) $\frac{d}{dx}(\cos x) =$