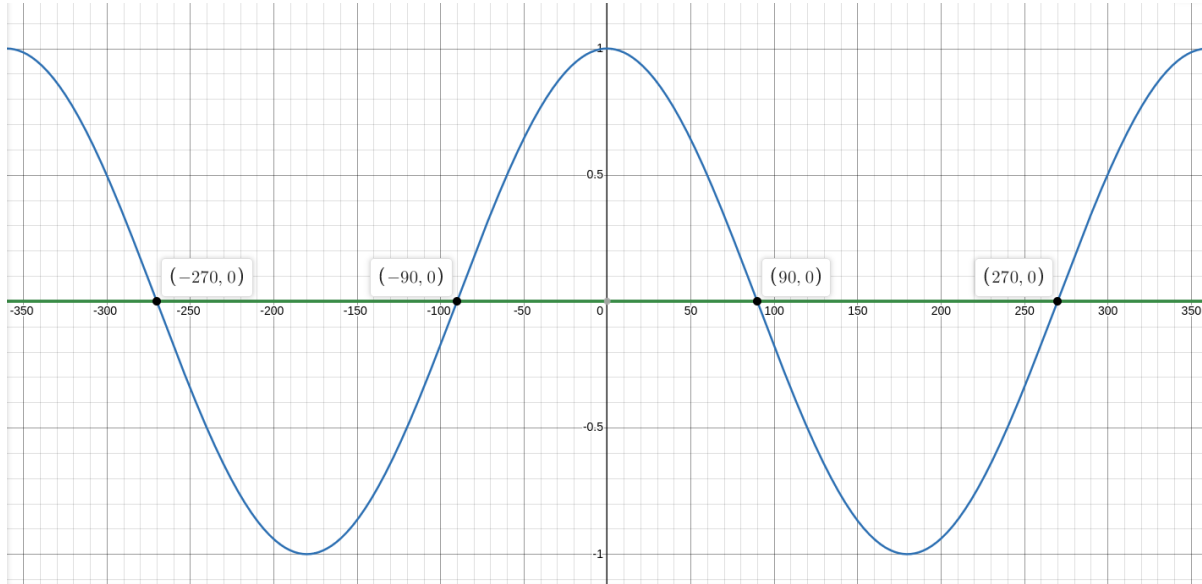


Sin, Cos and Tan graphs

1. Sketch graphs for Sin, Cos and Tan for the range $-360 \leq x \leq 360$
Label the points for $y = 1$ and 0

Hint:



$$y = \cos(x)$$

$$y = 0$$

There are multiple answers in the range $-360 \leq x \leq 360$

Use your sketched graphs to estimate values in the range $-360 \leq x \leq 360$ for

a) $\sin(x) = 0.5$

b) $\sin(x) = 0.75$

c) $\cos(x) = \frac{1}{3}$

d) $\cos(x) = -\frac{1}{3}$

Remember:
 $\cos(x) = k$

$$\cos^{-1}(k) = x$$

Given $\cos^{-1}(0.5) = 60$ Find all values for $\cos(x)$ in the range $-360 \leq x \leq 360$

Given $\tan^{-1}(0.5) = 26.565$ Find all values for $\tan(x)$ in the range $-360 \leq x \leq 360$

Given $f(x) = \sin(x)$ Find an equation for $\cos(x)$ as a transformation of $f(x)$