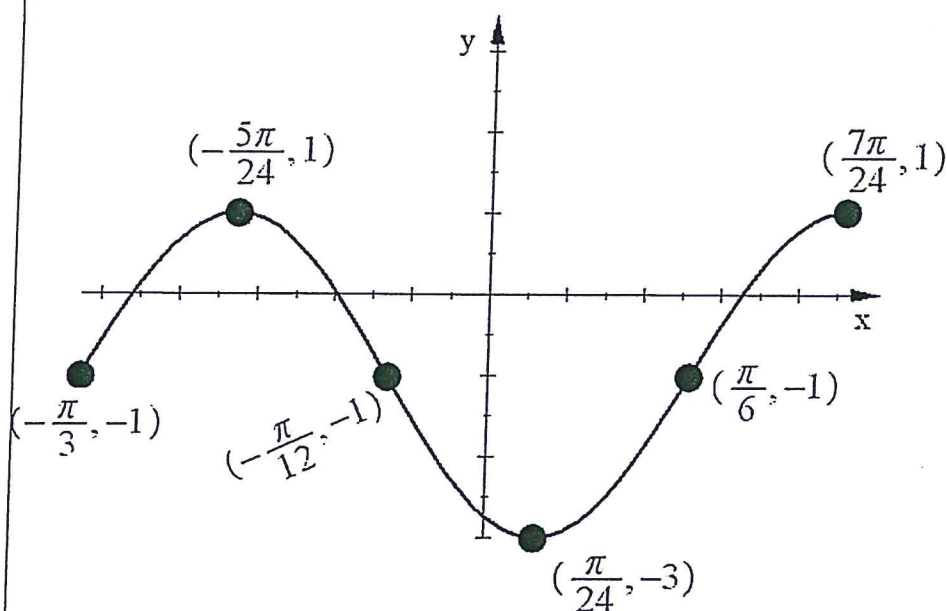


Graph one period of this function. Label the coordinates of the maximums, minimums, and x-intercepts (zeros). $y = -6\sin(10(x + \frac{3\pi}{8})) - 13$

Write both a Sin and a Cos equation for this graph.



Graph one period of this function. Label the coordinates of the maximums, minimums, and x-intercepts (zeros).

$$y = -6\sin(10(x + \frac{3\pi}{8})) - 13$$

MIDLINE $y = -13$

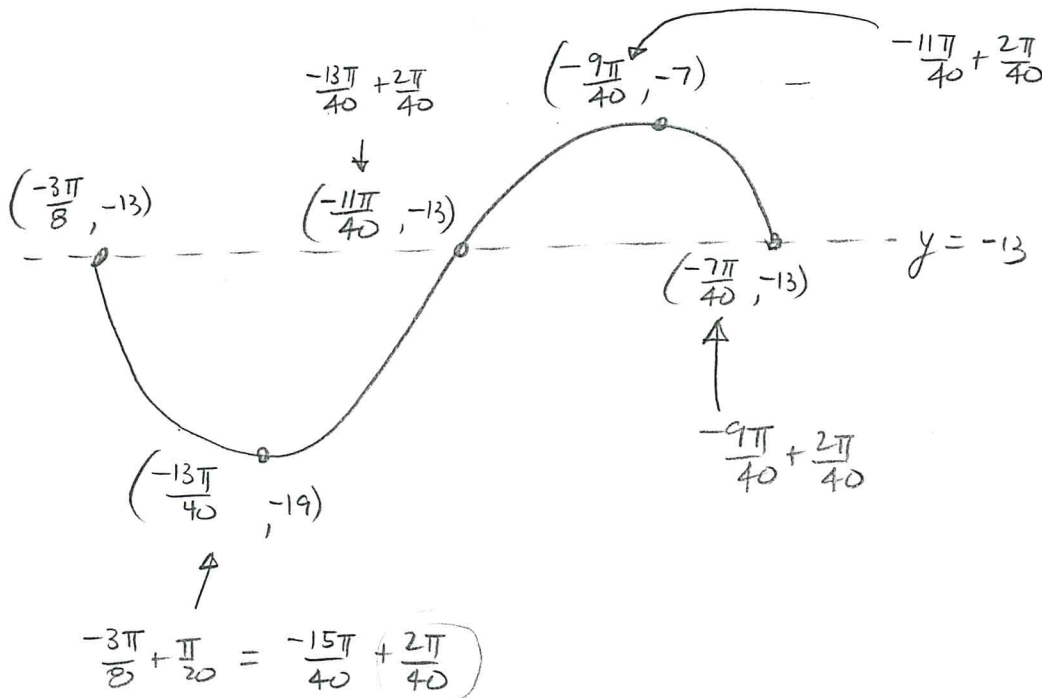
Amp = 6

phase shift $\frac{3\pi}{8}$ left

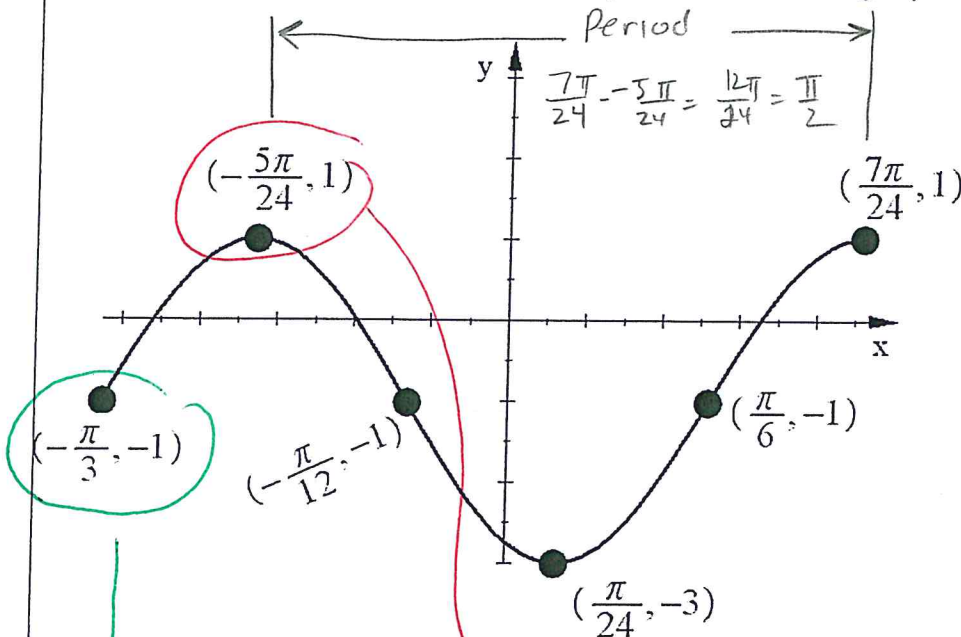
Period = $\frac{2\pi}{10} = \frac{\pi}{5}$

one fourth of a period $\frac{\pi}{5} \cdot \frac{1}{4} = \frac{\pi}{20}$

ANSWERS



Write both a Sin and a Cos equation for this graph.



midline $y = -1$

Amp = 2

period = $\frac{\pi}{2}$

$b = \frac{2\pi}{\frac{\pi}{2}} = 2\pi \cdot \frac{2}{\pi} = 4$

Sine

$y = 2\sin(4(x + \frac{\pi}{3})) - 1$

cosine $y = 2\cos(4(x + \frac{5\pi}{24})) - 1$