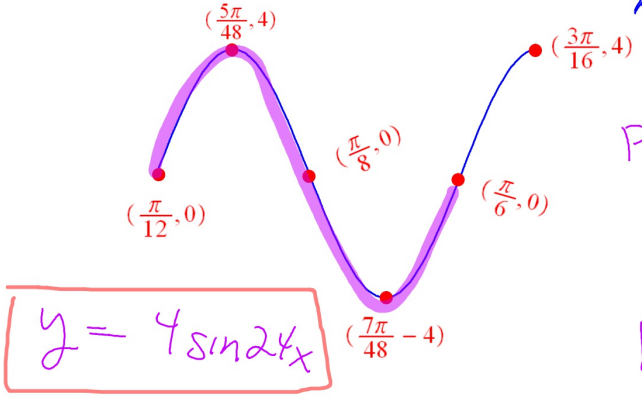
Find the period and amplitude then write the equation of this Sine function.



Amp = 4

period

$\frac{\pi}{6} - \frac{\pi}{12}$

$= \frac{2\pi}{12} - \frac{\pi}{12} = \frac{\pi}{12}$

$b = \frac{2\pi}{\frac{\pi}{12}} = 2\pi \cdot \frac{12}{\pi}$

$b = 24$

$y = 4\sin 24x$

State the period and the amplitude of this Sine function:

$y = -4.6\sin\frac{4x}{13}$ $\quad \frac{4}{13}x$

period $= \frac{2\pi}{b} = \frac{2\pi}{\frac{4}{13}} = 2\pi \cdot \frac{13}{4} = \frac{13\pi}{2}$

$b = \frac{4}{13}$

Amp = 4.6

In which Quadrant or on which axis does the terminal side of each angle lie?

1. $-2570^\circ \rightarrow 310^\circ$

IV

add 360° as many times as needed until it becomes pos

2. $1620^\circ \rightarrow 180^\circ$

neg x-axis

subtract 360 as many times as needed until it's between 0° and 360°

3. $\frac{35\pi}{2}$ neg y-axis

subtract 2π as many times as needed until it's between 0 & 2π

$\frac{35\pi}{2} \rightarrow 3\pi/2$

4. $\frac{-73\pi}{6}$ IV

add 2π as many times as needed until it becomes pos

$-\frac{73\pi}{6} \rightarrow \frac{11\pi}{6}$