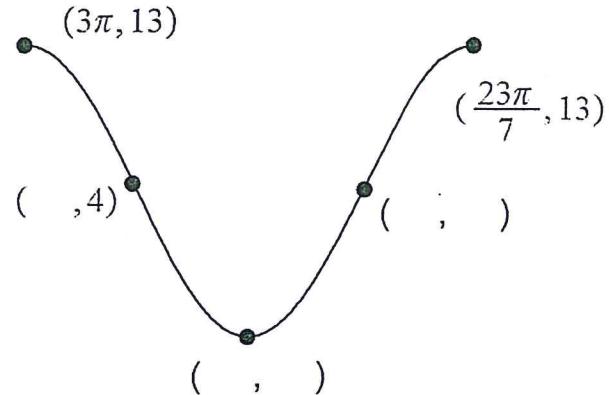
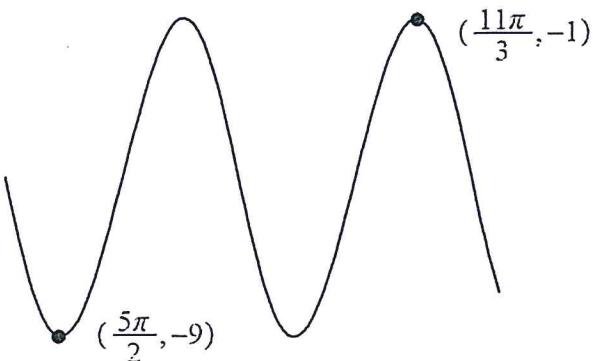


# Algebra 2 Bellwork Thursday, May 19, 2016

1. Consider this a Sine graph. Find the Period, Amplitude, Equation of the Midline, and the Phase Shift.

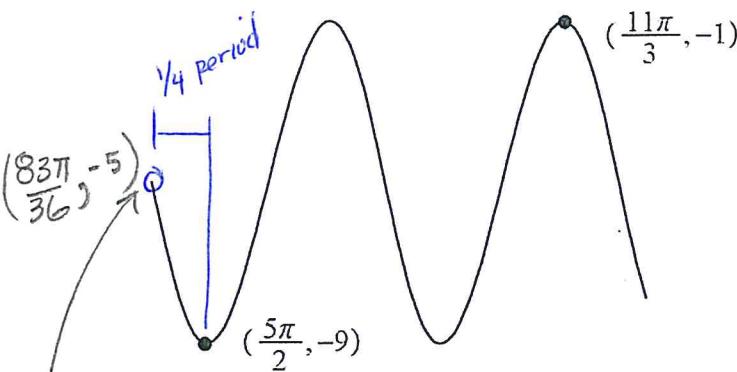


# Algebra 2 Bellwork Thursday, May 19, 2016

1. Consider this a Sine graph. Find the Period, Amplitude, Equation of the Midline, and the Phase Shift.

2. Find the missing coordinates.

**Answers**



$$\frac{11\pi}{3} - \frac{5\pi}{2} = \frac{22\pi}{6} - \frac{15\pi}{6} = \frac{7\pi}{6}$$

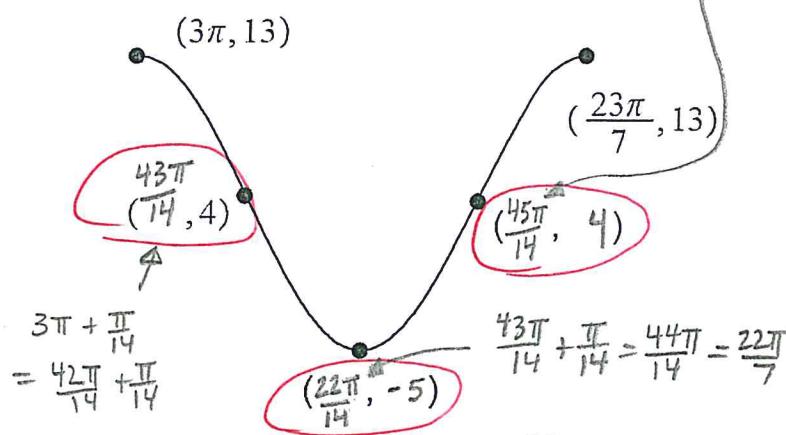
$$\text{Period} = \frac{\pi}{\frac{7\pi}{6}} = \frac{\pi}{6} \cdot \frac{2}{3} = \frac{2\pi}{9}$$

$$\text{Amplitude} = \frac{-1 - (-9)}{2} = \frac{8}{2} = 4$$

$$\text{EQ of Midline } y = \frac{-1 + (-9)}{2} \rightarrow y = -5$$

$$\frac{1}{4} \text{TH Period} = \frac{7\pi}{9} \cdot \frac{1}{4} = \frac{7\pi}{36}$$

$$\text{STARTING PT: } 5\pi/2, -7\pi/2, = \frac{90\pi}{2} - \frac{7\pi}{2} = 83\pi/36$$



$$\text{Period} = \frac{23\pi}{7} - 3\pi = \frac{23\pi}{7} - \frac{21\pi}{7} = \frac{2\pi}{7}$$

$$\frac{1}{4} \text{ period} = \frac{2\pi}{7} \cdot \frac{1}{4} = \frac{\pi}{14}$$

PHASE SHIFT:  $\frac{83\pi}{36}$  RIGHT