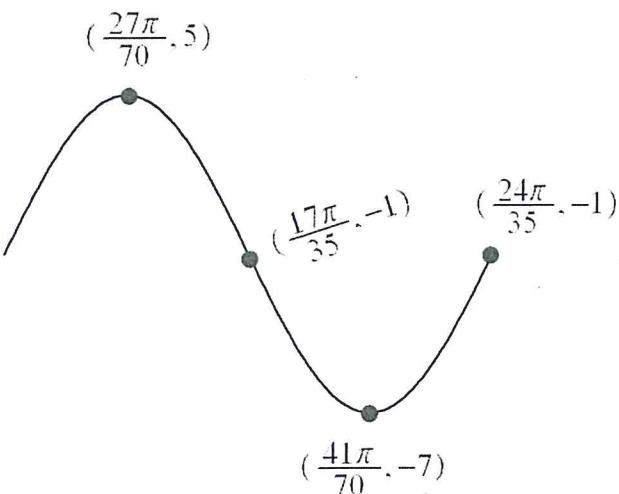


Algebra 2 Bellwork Friday, May 20, 2016

1. Graph one period of this function.
Label the coordinates of all maximums, minimums, and x-intercepts.

$$y = -12\cos(7(x - \frac{5\pi}{3})) + 8$$

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



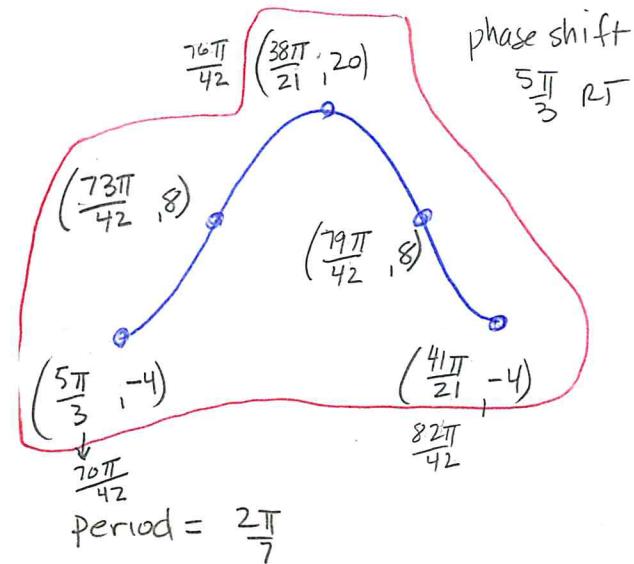
Algebra 2 Bellwork Friday, May 20, 2016

1. Graph one period of this function.
Label the coordinates of all maximums, minimums, and x-intercepts.

$$y = -12\cos(7(x - \frac{5\pi}{3})) + 8$$

midline $y = 8$ Amp = 12

phase shift
 $\frac{5\pi}{3}$ RT



$$\frac{1}{4}\text{th of a period } \frac{2\pi}{7} \cdot \frac{1}{4} = \frac{\pi}{14} \cdot \frac{3}{3} = \frac{3\pi}{42}$$

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Answers

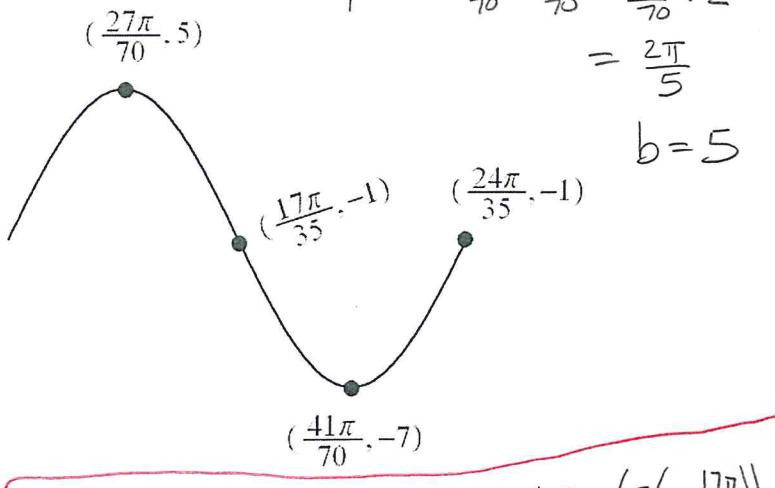
2. Write both a Sin and Cos equation for this graph.

$$\text{midline: } y = -1$$

$$\text{Amp} = 6$$

$$\text{period } \frac{41\pi}{70} - \frac{27\pi}{70} = \frac{14\pi}{70} \cdot 2 \\ = \frac{2\pi}{5}$$

$$b = 5$$



Sin START AT $\frac{17\pi}{35}$ $y = -6\sin(5(x - \frac{17\pi}{35})) - 1$

Cos START AT $\frac{27\pi}{70}$ $y = 6\cos(5(x - \frac{27\pi}{70})) - 1$