Bellwork

Alg 2

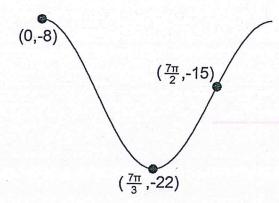
Thursday, April 25, 2019

1st to 3rd hours

1. State the Period, Amplitude, and Equation of the Midline for this Cosine Function: $y = -6\cos\frac{11x}{8} + 2$ Period = Eq of Midline:

2. Graph one period of this Cosine function. Label the coordinates of all max, min, and points on the midline. $y = 14\cos\frac{2x}{9}$

3. Write the equation of this Cosine function:



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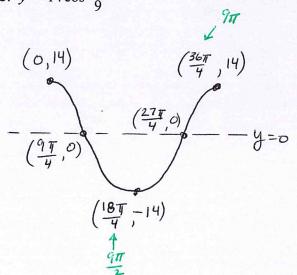
Answers

1. State the Period, Amplitude, and Equation of the Midline for this Cosine Function: $y = -6\cos\frac{11x}{8} + 2$

Period =

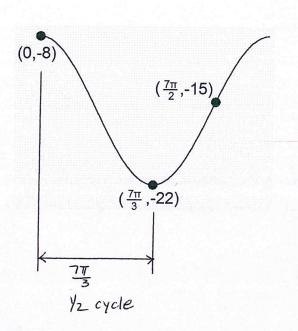
Eq of Midline;

2. Graph one period of this Cosine function. Label the coordinates of all max, min, and points on the midline. $y = 14\cos\frac{2x}{9}$



• period =
$$\frac{2\pi}{\frac{2}{q}}$$
 = $2\pi \cdot \frac{9}{2}$ = 9π

3. Write the equation of this Cosine function:



mIDLINE:
$$y = -15$$
 $k = -15$

Amplitude: $-8 - 15 = 7$

NOT upside down $a = 7$

period;
$$\frac{7\pi}{\frac{1}{3}} = 7\pi \cdot \frac{2}{3} \cdot \frac{2}{1} = \frac{14\pi}{3}$$

$$b = \frac{2\pi}{\frac{14\pi}{3}} = 2\pi \cdot \frac{3}{14\pi} = \frac{3}{7}$$