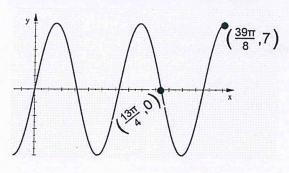
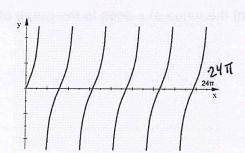
Bellwork

Alg 2B

Thursday, March 22, 2018

- 1. Graph one period of this function. Give the coordinates of all max's, min's, and points on the midline.
- $y = -4\operatorname{Sin}\left(\frac{5}{3}\left(x \frac{7\pi}{8}\right)\right) 3$
- 2. Write a Sin equation for this graph.
- 3. Write the equation of this graph.

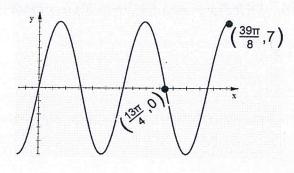


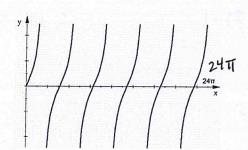


4. Given the function y = Tan?x has a period of $\frac{34\pi}{25}$ find 5 VA and 5 x-int.

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$$\frac{71\pi}{8}, -3) \qquad \frac{59\pi}{40}, -3) \qquad +4$$

$$\frac{47\pi}{40}, -3) \qquad \frac{83\pi}{40}, -3)$$

$$\frac{71\pi}{9} + \frac{3\pi}{10} = \frac{35\pi}{40} + \frac{12\pi}{40}$$

$$Period = \frac{39\pi}{8} - 0 = \frac{39\pi}{8} = \frac{39\pi}{9} + \frac{4}{9} = \frac{39\pi}{18} \Rightarrow b = \frac{2\pi}{39\pi}$$

$$|4 = 7 \sin \frac{12x}{8}$$

$$y = 7 \sin \frac{12x}{13}$$
 = $z_{17} \cdot \frac{18}{397}$ = $b = \frac{12}{13}$

(3) period =
$$\frac{24\pi}{51/2} = \frac{24\pi}{\frac{1}{2}} = 24\pi$$
. $\frac{2}{11} = \frac{48\pi}{11} \Rightarrow b = \frac{\pi}{48\pi} = \frac{11}{11}$

$$period = \frac{34\pi}{25}$$

$$x-int=0, \pm \frac{3417}{25}, \pm \frac{6817}{25}, \dots$$