Bellwork Alg 2B Friday, May 11, 2018

1. Graph one period of this function. Label the coordinates of all max's, min's, and points on the midline.

$y = -5\text{Cos}(9(x - \frac{3\pi}{4})) + 3$

2. State the location of five x-intercepts and five Vertical Asymptotes for this function:

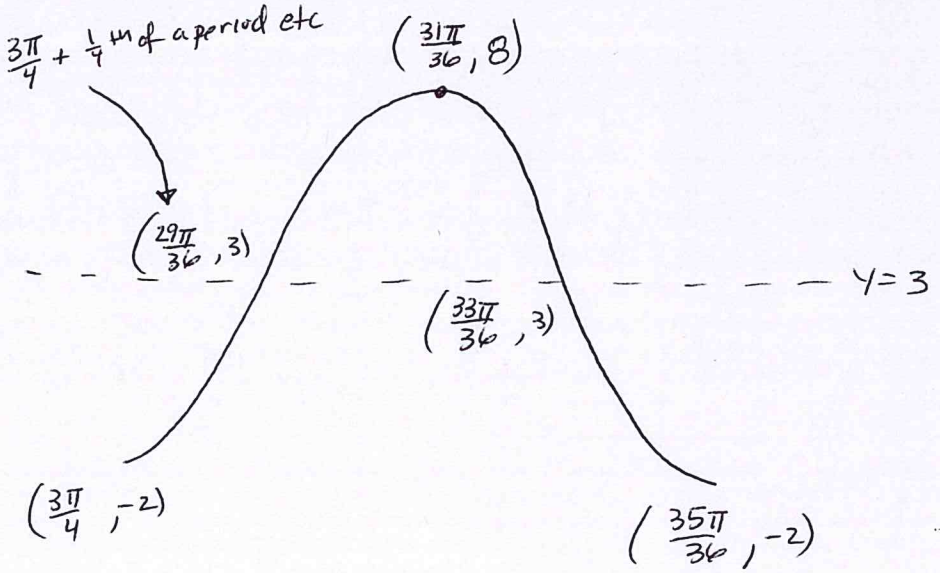
$y = -\text{Tan}\frac{8x}{11}$

Bellwork Alg 2B Friday, May 11, 2018 Answers

1. Graph one period of this function. Label the coordinates of all max's, min's, and points on the midline.

$y = -5\text{Cos}(9(x - \frac{3\pi}{4})) + 3$ Amplitude = 5 midline: $y=3$ phase shift: $\frac{3\pi}{4}$ right

period = $\frac{2\pi}{9}$ upside down



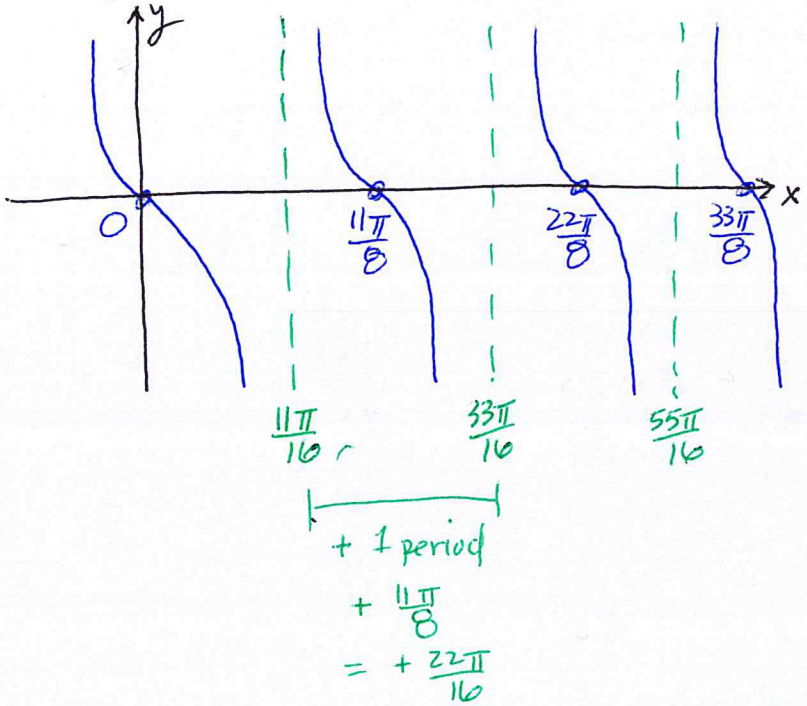
1/4 period

$\frac{1}{4} \cdot \frac{2\pi}{9} = \pi/18$

$= \frac{2\pi}{36}$

2. State the location of five x-intercepts and five Vertical Asymptotes for this function:

$y = -\text{Tan}\frac{8x}{11}$ period = $\frac{\pi}{\frac{8}{11}} = \frac{11\pi}{8}$



X-int:

$0, \pm\frac{11\pi}{8}, \pm\frac{22\pi}{8}$

VA:

$\pm\frac{11\pi}{16}, \pm\frac{33\pi}{16}, \pm\frac{55\pi}{16}$