

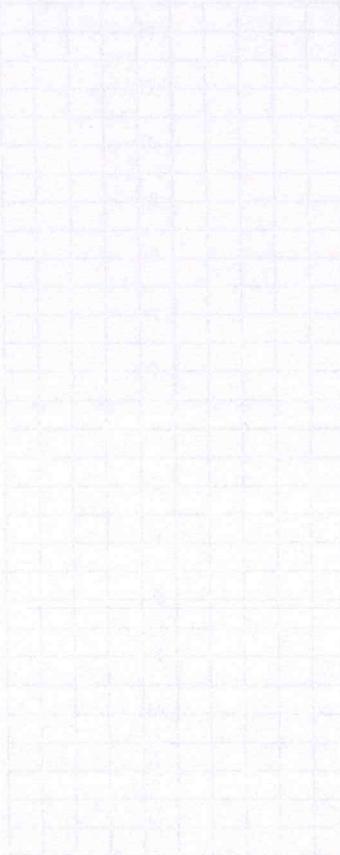
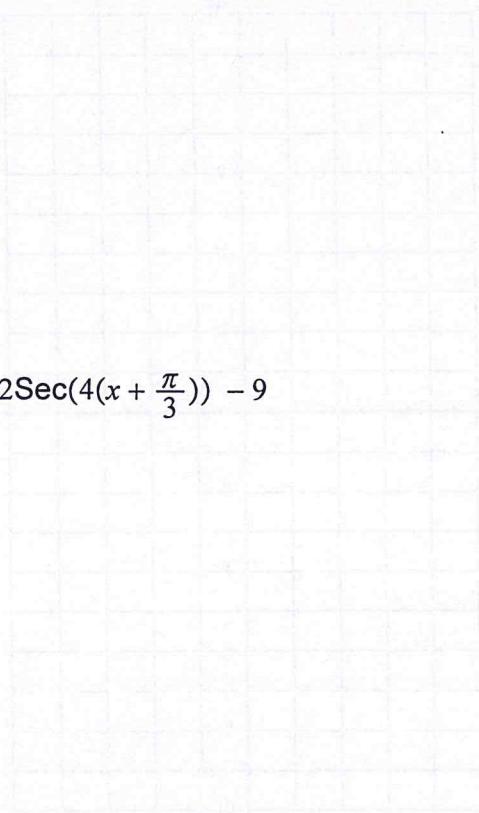
Bellwork Alg 2B 5th hr Tuesday, May 15, 2018

Graph one period of each function. Label the coordinates of the max's and min's and the equations of the VA.

1. $y = -7\csc 8x + 1$



2. $y = 2\sec(4(x + \frac{\pi}{3})) - 9$



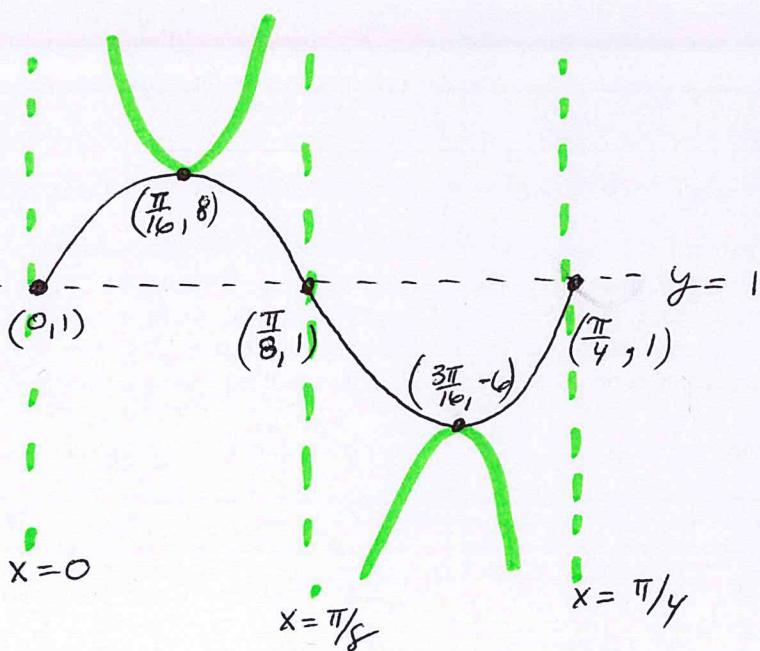
Graph one period of each function. Label the coordinates of the max's and min's and the equations of the VA.

$$1. y = -7 \csc 8x + 1$$



$$y = -7 \sin 8x + 1$$

- Amp = 7
- Period = $\frac{2\pi}{8} = \frac{\pi}{4}$
- midline: $y = 1$
- no phase shift
- upside down



$$2. y = 2 \sec(4(x + \frac{\pi}{3})) - 9$$



$$y = 2 \cos(4(x + \frac{\pi}{3})) - 9$$

$$\text{amp} = 2 \quad \text{period} = \frac{2\pi}{4} = \frac{\pi}{2} \quad \text{phase shift: } \pi/3 \text{ left}$$

$$\text{midline: } y = -9$$

$$\frac{1}{4} \text{ period} = \frac{1}{4} \cdot \frac{\pi}{2} \\ = \frac{\pi}{8}$$

