

## Bellwork Alg 2B Monday, May 14, 2018

1. Sketch one period of this reciprocal trig function. Label coordinates of the max's and min's and identify the VA.

$$y = 8\csc\left(5\left(x + \frac{2\pi}{3}\right)\right) + 6$$

2. State the equations of 5 VA and the location of 5 x-intercepts of this function:  $y = -\cot\left(\frac{8x}{5}\right)$

EQ of VA:

x-intercepts:

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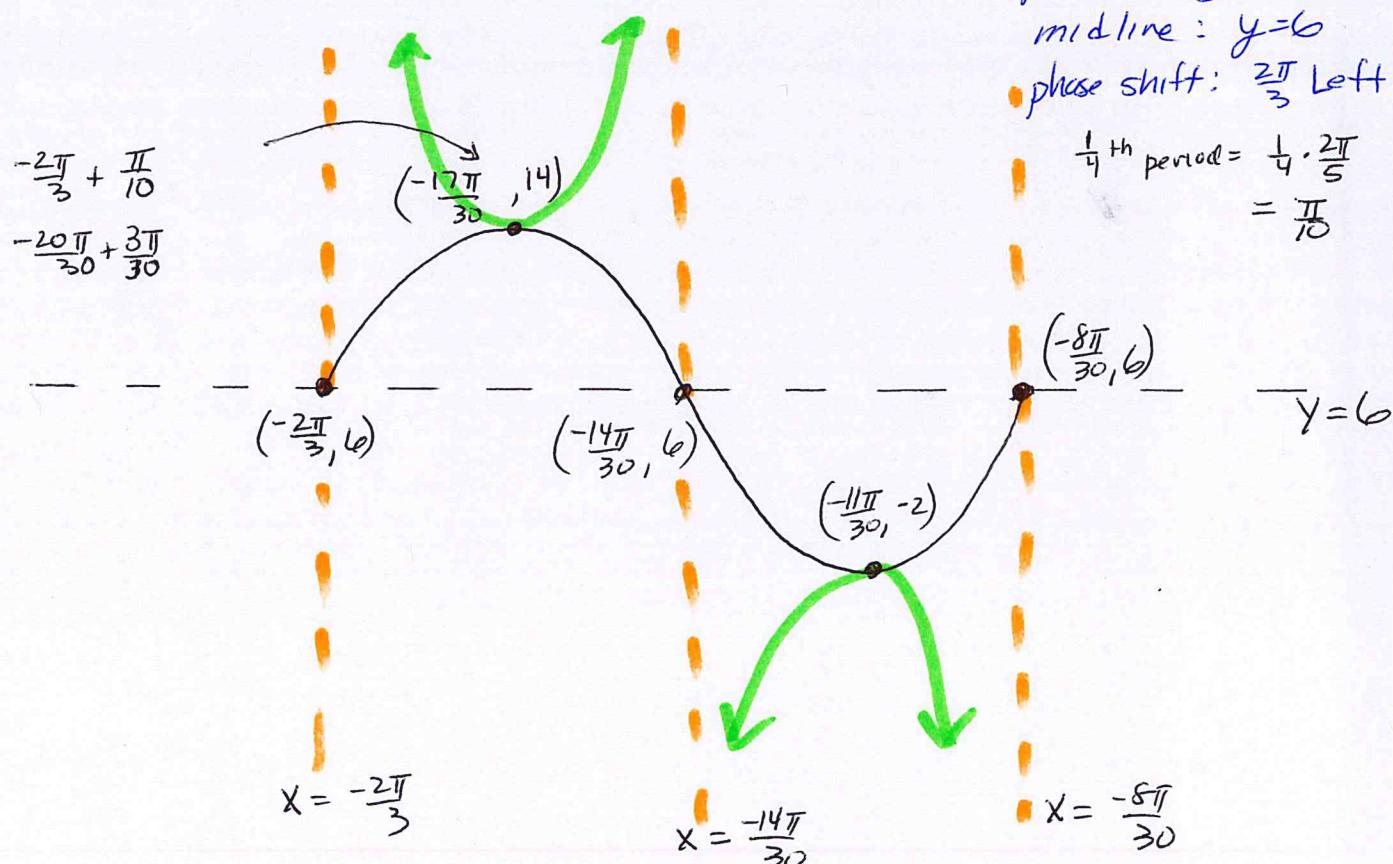
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1. Sketch one period of this reciprocal trig function. Label coordinates of the max's and min's and identify the VA.

$$y = 8 \csc\left(5\left(x + \frac{2\pi}{3}\right)\right) + 6 \rightarrow 8 \sin\left(5\left(x + \frac{2\pi}{3}\right)\right) + 6$$



2. State the equations of 5 VA and the location of 5 x-intercepts of this function:  $y = -\cot\left(\frac{8x}{5}\right)$

EQ of VA:

$$x = 0, \pm \frac{5\pi}{8}, \pm \frac{10\pi}{8}$$

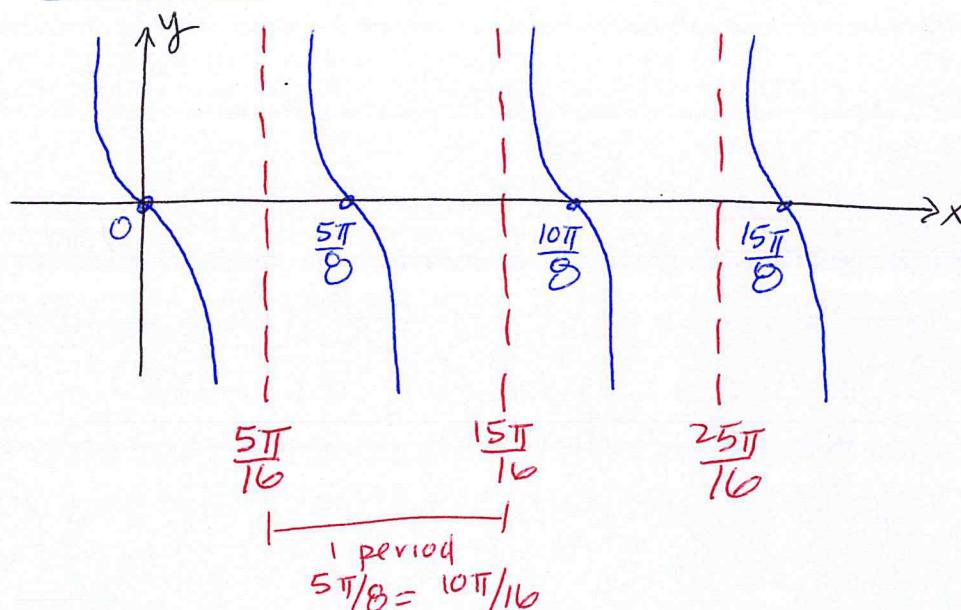
x-intercepts:

$$y = -\tan\left(\frac{8x}{5}\right)$$

$$x = \pm \frac{5\pi}{16}, \pm \frac{15\pi}{16}, \pm \frac{25\pi}{16}$$

period =  $\frac{5\pi}{8}$

$$y = -\tan\frac{8x}{5}$$



For TAN:

$$x\text{-int: } 0, \pm \frac{5\pi}{8}, \pm \frac{10\pi}{8}$$

$$\text{VA: } x = \pm \frac{5\pi}{16}, \pm \frac{15\pi}{16}, \pm \frac{25\pi}{16}$$