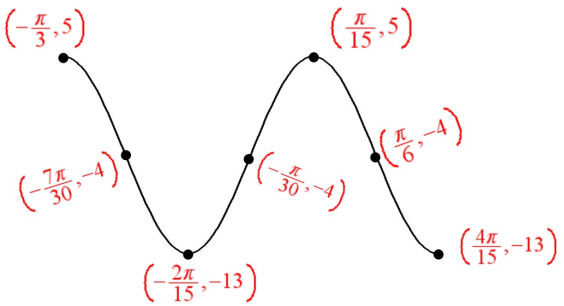
Bellwork Wednesday, April 30, 2014

1. Simplify this trigonometric expression to a single trig function or number.

$$\frac{\text{Cscx}}{\text{Tanx} + \text{Cotx}}$$

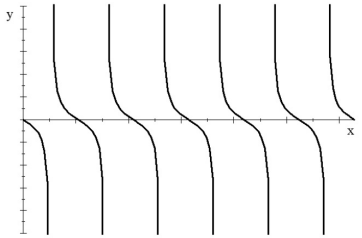
2. Write the equation of this function.



3. Graph one period of this function. Label the coordinates of all max, min, and x-intercepts.

$$y = -7\text{Sin}6\left(x - \frac{3\pi}{4}\right) + 5$$

4. Write the equation of this tangent function. The window is 0 to 2π



5. State the Period and give 4 Zeros and 4 Vertical Asymptotes for this function:

$$y = \text{Tan}\frac{3x}{4}$$

Period =

Zeros:

VA:

6. Given $\text{Csc}\theta = \frac{85}{77}$ find the other five trigonometric ratios.

$\text{Sin}\theta =$ $\text{Cos}\theta =$ $\text{Tan}\theta =$

$\text{Sec}\theta =$ $\text{Cot}\theta =$

7. Find both a positive and a negative coterminal angle for each angle. Give your answer in the same form as the given angle.

a) $\theta = 1340^\circ$

Pos:

Neg:

b) $\theta = -\frac{26\pi}{7}$

Pos:

Neg: