Requirements for a Correct Trigonometric Graph

In order to receive full credit for a graph, you must do all of the following.

- 1.) Label your axes.
- 2.) Show at least one period.
- 3.) Label five ordered pairs or asymptotes (as appropriate).

Generalized Formulas for Graphs

$$y = a \sin(bx - c) + d$$
 $y = a \csc(bx - c) + d$
 $y = a \cos(bx - c) + d$ $y = a \sec(bx - c) + d$

$$y = a \cot(bx - c) + d$$

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amplitude = a	
period $\frac{2}{b}$ or ${b}$	
tick marks $\frac{\text{period}}{4}$	
endpoints	
bx-c=0 and	bx - c = 2
$bx - c = \frac{-}{2}$ and	$bx - c = \frac{1}{2}$
bx - c = 0 and	bx - c =
vertical shift = d	

Inverse Functions (Restrictions)	
-1 x 1	
$-\frac{1}{2}$ y $\frac{1}{2}$	
-1 x 1 0 y	
- < x <	
$-\frac{1}{2} < y < \frac{1}{2}$	