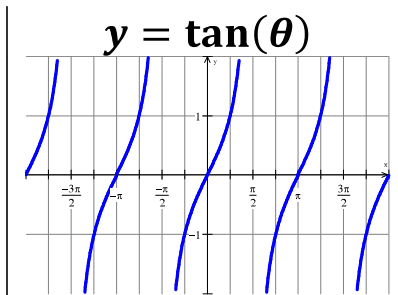
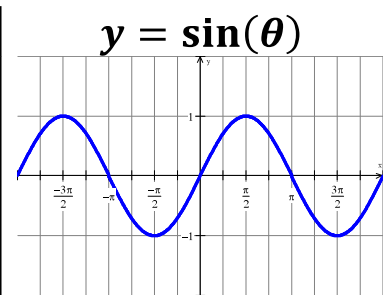
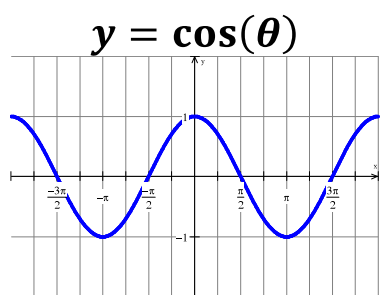
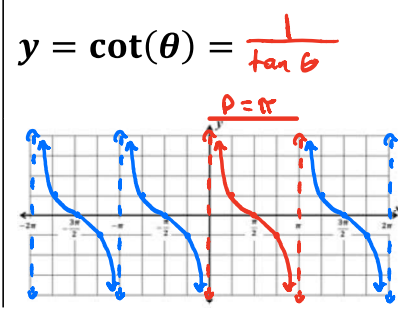
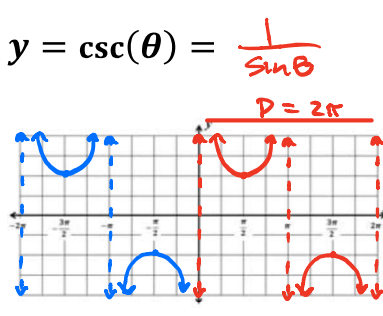
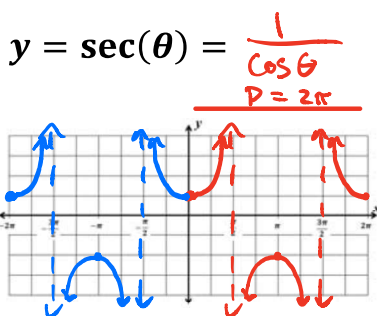


Write your questions and thoughts here!

RECALL:



Reciprocal Graphs:

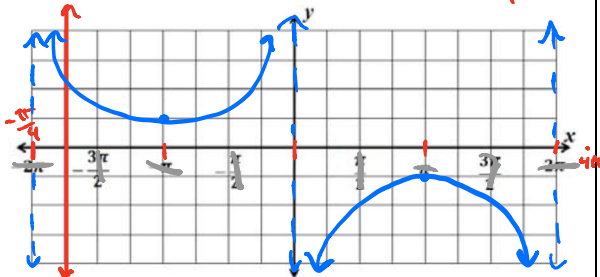


Identify the **A value**, period, vertical shift, and phase shift before graphing.

1. $y = \csc\left(\frac{1}{2}\left(x + \frac{\pi}{4}\right)\right)$

A: 1 Period: 4π

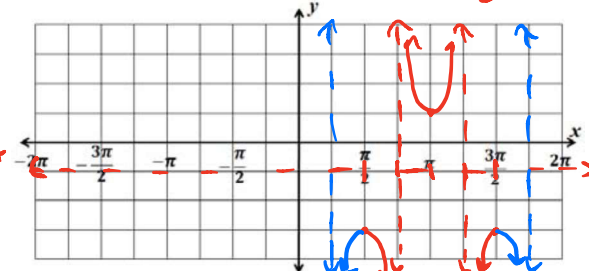
Vertical Shift: 0 Phase Shift: $-\frac{\pi}{4}$



2. $y = -2 \sec(2x - \pi) - 1$

$\rightarrow \sec\left[2\left(x - \frac{\pi}{2}\right)\right] - 1$
A: -2 Period: π

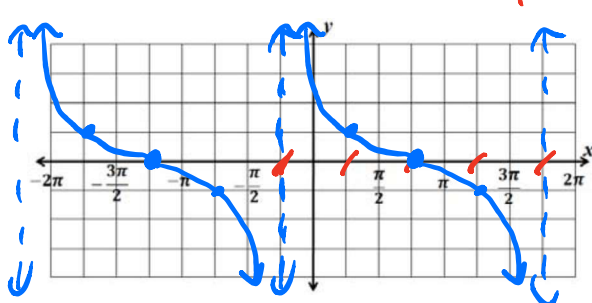
Vertical Shift: -1 Phase Shift: $\frac{\pi}{2}$



3. $y = \cot\left(\frac{1}{2}x + \frac{\pi}{8}\right) = \cot\left[\frac{1}{2}\left(x + \frac{\pi}{4}\right)\right]$

A: 1 Period: 2π

Vertical Shift: 0 Phase Shift: $-\frac{\pi}{4}$



4. $y = 3 \csc(x + \pi) + 1$

A: 3 Period: 2π

Vertical Shift: 1 Phase Shift: $-\pi$

