

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

What are the Vertical Asymptotes? when $\cos = 0$

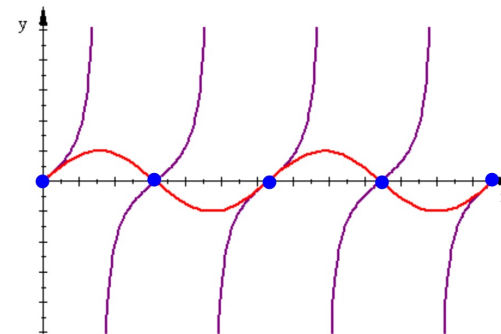
What are the x-intercepts? $\sin = 0$

What is the period of $\tan \theta$? π

the graph shows four cycles from 0 to 4π therefore each cycle is only π wide Period = π

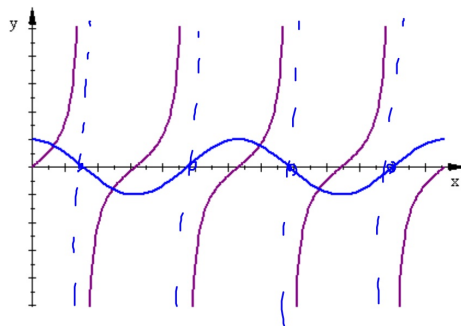
Leave $Y_1 = \tan x$. Graph $Y_2 = \sin x$.

How is the graph of $\tan x$ related to the graph of $\sin x$?



$\tan x$ is zero whenever $\sin x$ is zero.

Leave $Y_1 = \tan x$. Graph $Y_2 = \cos x$.



How is the graph of $\tan \theta$ related to the graph of $\cos \theta$?

$\tan \theta$ has a VA whenever $\cos \theta$ is zero.