Fill in the table below for the value of each function				2) Based on the table where is the tangent function undefined?
$\boldsymbol{\theta}$	$sin(\boldsymbol{\theta})$	$cos(\boldsymbol{\theta})$	$tan(\boldsymbol{\theta})$	Why is it undefined at these angles?
0				
<u>π</u> 4				
$\frac{\pi}{2}$				
$\frac{3\pi}{4}$				
π				
<u>5π</u> 4				
$\frac{3\pi}{2}$				
<u>7π</u> 4				
2π				Unit 6 BM 4
etch the graph	of the $y = tan($	θ) function		4) Identify where in the domain 4 different asymptotes occur.
	$\begin{array}{c} \boldsymbol{\theta} \\ 0 \\ \hline \frac{\pi}{4} \\ \frac{\pi}{2} \\ \hline \frac{3\pi}{4} \\ \pi \\ \hline \frac{5\pi}{4} \\ \hline \frac{3\pi}{2} \\ \hline \frac{7\pi}{4} \\ \hline 2\pi \end{array}$	$\begin{array}{c c} \boldsymbol{\theta} & sin(\boldsymbol{\theta}) \\ \hline 0 & \\ \frac{\pi}{4} & \\ \frac{\pi}{2} & \\ \frac{3\pi}{4} & \\ \pi & \\ \frac{5\pi}{4} & \\ \frac{3\pi}{2} & \\ \frac{7\pi}{4} & \\ 2\pi & \\ \end{array}$	$\begin{array}{c c} \boldsymbol{\theta} & sin(\boldsymbol{\theta}) & cos(\boldsymbol{\theta}) \\ \hline 0 & \\ \frac{\pi}{4} & \\ \frac{\pi}{2} & \\ \frac{3\pi}{4} & \\ \pi & \\ \frac{5\pi}{4} & \\ \frac{3\pi}{2} & \\ \frac{7\pi}{4} & \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

5) Based on the equation $tan(\theta) = \frac{sin(\theta)}{cos(\theta)}$ why do the discontinuities occur?	6) What is the period of the $y = tan(\theta)$ function? How do you know?
7) What is the range of the function $y = tan(\theta)$ function?	8)