

1) Fill in the table below for the value of each function

θ	$\sin(\theta)$	$\cos(\theta)$	$\tan(\theta)$
0			
$\frac{\pi}{4}$			
$\frac{\pi}{2}$			
$\frac{3\pi}{4}$			
π			
$\frac{5\pi}{4}$			
$\frac{3\pi}{2}$			
$\frac{7\pi}{4}$			
2π			

2) Based on the table where is the tangent function undefined?
Why is it undefined at these angles?

Unit 6 BM 4

3) Sketch the graph of the $y = \tan(\theta)$ function

4) Identify where in the domain 4 different asymptotes occur.

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)