

Math 32 Quick Quiz

GSI: Theo Johnson-Freyd
<http://math.berkeley.edu/~theojf/08Fall32/>

Tuesday, October 28, 2008

1. Complete the following table:

θ (degrees)	θ (radians)	$\sin \theta$	$\cos \theta$	$\tan \theta$
0	0	0	1	0
30°				
45°				
60°				
	$\pi/2$			
	$3\pi/4$			
	π			
	$7\pi/6$			
315°				
-300°				

2. Which is larger, $\cos 280^\circ$ or $\cos 290^\circ$?:
3. What is the domain of the function $\ln \cos \theta$ for $0 \leq \theta \leq 2\pi = 360^\circ$?
4. If $\sin \theta = 1/5$ and $\pi/2 < \theta < \pi$, find the values of the other five trigonometric functions.
5. What is the length of an arc of a circle of radius 6 subtended by a 60° angle?
6. What is the area of a sector of a circle of radius 5 subtended by an angle with measure $3\pi/4$?