Unit 1.3 Notes Using the Definitions of the Trigonometric Functions

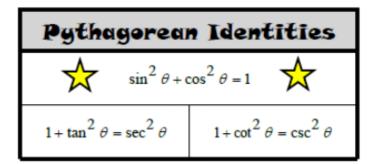
Reciprocal Identities

Reciprocal Identities			
$\sin\theta = \frac{1}{\csc\theta}$	$\cos\theta = \frac{1}{\sec\theta}$	$\tan\theta = \frac{1}{\cot\theta}$	
$\csc \theta = \frac{1}{\sin \theta}$	$\sec \theta = \frac{1}{\cos \theta}$	$\cot \theta = \frac{1}{\tan \theta}$	

Quotient Identities

Quotient Identities			
$\tan\theta = \frac{\sin\theta}{\cos\theta}$	$\cot \theta = \frac{\cos \theta}{\sin \theta}$		

Pythagorean Identities



Range of Trigonometric Functions

$-1 \le \sin \theta \le 1$	$-1 \le \cos \theta \le 1$
$\sec \theta \leq -1$ or $\sec \theta \geq 1$	$\csc \theta \leq -1$ or $\csc \theta \geq 1$

 $\tan \theta$ and $\cot \theta$ can equal any number

Signs of Trigonometric Function in each Quadrant

