3.1 Video Worksheet

Name: _____

1.) (3 pts.) Graph $\sin x$ from -4π to 4π. (*Start by completing the table for $\sin x$ from -2π to 2π.*)

θ	-2π	$-\dfrac{3\pi}{2}$	π	$-\dfrac{\pi}{2}$	0	$\dfrac{\pi}{2}$	π	$\dfrac{3\pi}{2}$	2π
$\sin\theta$									
$(\theta, \sin\theta)$									

2.) (1 pt.) What is the period of the sine function? (*Reference pg.109 and/or pg.124-126 of the text.*)

3.) (1 pt.) What is the domain and range of the graph of $\sin x$?

4.) (3 pts.) Graph $\cos x$ from -4π to 4π. (*Start by completing the table for $\cos x$ from -2π to 2π.*)

θ	-2π	$-\dfrac{3\pi}{2}$	π	$-\dfrac{\pi}{2}$	0	$\dfrac{\pi}{2}$	π	$\dfrac{3\pi}{2}$	2π
$\cos\theta$									
$(\theta, \cos\theta)$									

5.) (1 pt.) What is the period of the cosine function? (*Reference pg.109 and/or pg.124-126 of the text.*)

6.) (1 pt.) What is the domain and range of the graph of $\cos x$?