## Pop-Quiz 1

Trigonometry

Summer A 2016

1. Find, without a calculator, the exact value of each of the following. Use the unit circle to find a reference angle. Specify if the expression is undefined

 $\sin(7\pi/6) = -\frac{1}{2}$ 

 $cos(90^\circ) = O$ 

 $\cos(540^\circ) = \cos(180^\circ)$   $\sec(-\pi/3) = \frac{1}{\cos(-\frac{\pi}{3})}$   $\cos(540^\circ) = \cos(180^\circ)$ 

 $\cot(540^{\circ}) = \cot(180^{\circ})$   $\cot(540^{\circ}) = \cot(180^{\circ})$   $\sin(180^{\circ}) = \frac{1}{100^{\circ}}$ 

 $\tan(11\pi/4) = \tan(2\pi + \frac{3\pi}{4})$ 

= tau (35) = -1

2. (a) Given that  $\theta$  is an angle in the first quadrant and that  $\cos(\theta) = \frac{3}{5}$ , find, without calculator, the exact value of each of the following

 $\sin(\theta) = \frac{9}{5}$ 

6=4 32+62=52=5 l= 125-9=16=4

 $\sec(\theta) = \frac{3}{3}$ 

(b) Given that  $\theta$  is an angle in the fourth quadrant and that  $\cos(\theta) = \frac{3}{5}$ , find, without calculator, the exact value of each of the following

 $\sin(\theta) = -\frac{4}{5}$ 

 $\tan(\theta) = -\frac{4}{3}$ 

 $\tan(\theta) = \frac{4}{3}$ 

 $\csc(\theta) = \frac{1}{3i\sqrt{\theta}} = \frac{5}{4}$