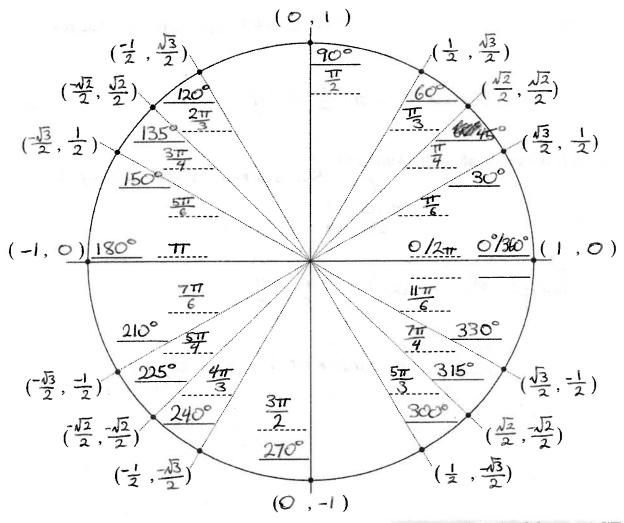
## Quiz 7

Math 3C: Precalculus December 2, 2019

When you finish, please remain seated until class is dismissed

	C		
Nama.	Jolutions	DID.	
maille.	301W17013	1110.	

**Problem 1** (10 points). Fill in the blanks of the unit circle drawn below. In the parentheses, write the **coordinates** of each point; on the solid line write the angle measure in **degrees**, and on the dotted line write the angle measure in **radians**. (there are two extra lines near (1,0), you can leave those two blank)



THERE IS A SECOND PAGE

## **EXTRA CREDIT:**

(2 points each)

What is  $\csc\left(\frac{5\pi}{4}\right)$ ?

$$\csc(\frac{5\pi}{4}) = \frac{1}{\sin(\frac{5\pi}{4})} = \frac{1}{-\frac{\sqrt{2}}{2}} = \frac{-2}{\sqrt{2}} = \frac{-\sqrt{2}}{\sqrt{2}}$$

OPTIONAL simplification

What is the period of  $f(x) = 3\cos(2x)$ ?

- Horizontal stretch by factor of 1

What is the range of  $g(x) = \sin(2x) + 1$ ? Vertical shift up by 1

Horizontal

Stretch

Range of 
$$sin(2x)$$
 is  $[-1,1]$ 

Range of  $sin(2x)+1$  is  $[-0,2]$