Florida International University
Trigonometry-MAC1114
Pre-Class Assignment 9

Spring 2018
Due Date: 3/9/2018

Name: $\qquad$

# SHOW ALL YOUR WORK FOR EACH PROBLEM TO GET FULL CREDIT. 

 PLEASE BE NEAT.Direction: Read through sections 6.5 in your book and answer the following questions.

1. Solve the following equations
a) $2 x+5=1$
b) $3 x-5=5-2 x$
c) $x^{2}-5 x+6=0$
d) $3 x^{2}+x-2=0$
e) $2 x^{2}-5 x-3=0$
2. a. For which angle(s) the sine function takes values $\frac{1}{2}$.
b. For which angle(s) the cosine function takes values $\sqrt{3} / 2$.
3. What are the periods of sine, cosine and tangent functions (Section 5.4).
4. In the following equation, we can NOT divide both sides of the equation by $\tan (x)$. What do you think the reason for that is?

$$
\tan (x) \cdot \cot (x)=\tan (x)
$$

5. Solve the equation on the interval $0 \leq \theta<2 \pi$. (Section 6.5)

$$
2 \sin \theta+3=2
$$

