Florida International University Trigonometry-MAC1114 Pre-Class Assignment 9 Spring 2018

Due Date: 3/9/2018

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

**<u>Direction:</u>** Read through sections 6.5 in your book and answer the following questions.

- 1. Solve the following equations
  - a) 2x+5=1
  - b) 3x-5 = 5 2x
  - c)  $x^2 5x + 6 = 0$
  - d)  $3x^2 + x 2 = 0$
  - e)  $2x^2 5x 3 = 0$
- 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).
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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  $0 \le \theta < 2\pi$ . (Section 6.5)

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