Florida International University   Spring 2018
Trigonometry-MAC1114   Due Date: 3/2/2018
Pre-Class Assignment 8

Name: _____

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

Direction: Read through sections 6.3 and 6.4 in your book and answer the following questions.

1. a.   Write the _**double angle formulas**_ for sine and cosine functions. (Section 6.3)

    b.   Give an example to show why $\sin(2\theta) = 2\sin(\theta)$ is not true.

2. Derive the identity $\cos(2\theta) = 2\cos^2(\theta) - 1$ from $\cos(2\theta) = \cos^2(\theta) - \sin^2(\theta)$ by using Pythagorean Identity.(Section 6.3)

3. Use the figure to find the exact value of the trigonometric function $\cos 2\theta$. (Section 6.3)