ECE 270 Computer Methods in ECE

Pretest
Fall 2013 / Instructor: Paul Watta

1. What Math classes have you taken and when?

2. What ECE classes have you taken and when?

3. What computer languages have you worked with?

4. For each of these angles, give the equivalent radian measure, and the sine and cosine value.

θ	30°	45°	90°
Radians			
$\sin(\theta)$			
$\cos(\theta)$			

5. Make a plot of the function $y = e^x$ from $x = -3$ to $x = 3$.

6. Suppose $f(x) = x^2 + 3x$. Compute the following:

(a) $f(1)$

(b) The points x for which $f(x) = 0$

7. Compute the following: $\sum\limits_{n=1}^{4} n^2$

8. What do you want to learn about computer programming this semester?

9. As an engineer, what do you ultimately want to design and create?