**Quiz #1 (25 pts) – March 3rd, 2016**

1. (5 points) What is the difference between **System.out.println**, **System.out.print**, and **System.out.printf**?

System.out.print – Prints out the argument

System.out.println – Prints out the argument with an end line after the argument.

System.out.printf – Prints out the arguments in a more controlled fashion that the programmer formats.

1. (5 points) Assuming there are two variables of the type **double**, named **varX** and **vary**, with **varX** containing the value of 6.45 and **varY** containing the value of 3.125; write a Java statement using the **printf** function and correct format string to output:

**6.45 + 3.13 = 9.58**

double varX = 6.45;

double varY = 3.13;

System.out.printf (" %f + %f = %f \n “, varX, varY, varX + varY);

1. (15 points, 5 points each) Assume the variables for the algebraic expressions have already been declared as integer, write the correct Java statements for the following:
   1. distance = (rate)(time)

distance = ( rate \* time );

* 1. some\_value =

some\_value = ( ( (Math.pow ( a , 4) ) + b) / ( ( 2 \* x) + c ) ;

* 1. mystery\_value =

mystery\_value = ( ( ( 3 \* ( Math.pow ( a , 7 ) ) ) + ( 5 \* b ) ) / ( 2 \* x ) ) + c ;