*[The following is an example of what your first in-class Review Quiz will look like. The questions are similar (but not necessarily identical) to those in any Reading Quiz from RdQ1.x-RdQ4.x and any Review Quiz from RvQ1-RvQ3]*

No computers allowed for this Review Quiz. **You are allowed one single-sided page of hand-written notes.**

Answer each of the following essay questions. Each is similar to some Reading or Review Quiz question given earlier in the course. Each question is worth 2 points. Writing something will earn you some credit > 0, but only if you write something...

**[iRvQ1-1]** What is the value of the following Python expression? **1 - 2 \*\* 3 // 4 - 5.** Also briefly describe the order in which each operator is applied, when the Python interpreter evaluates this expression.

**[iRvQ1-2]** Write a complete Python program that prompts the user to enter a **float** from the user, then prints out the square of the entered value divided by a random integer chosen from one of 1, 2, or 3.

**[iRvQ1-3]** What is a semantic (or logical) error? Give a specific example in Python.

**[iRvQ1-4]** Write a Python program which creates a turtle named **moxie**, then uses it to draw any two lines of length **100** that intersect. The point of intersection may occur anywhere.

**[iRvQ1-5]** Write a Python program which prints out the squares of each integer from **1** through (and including) **1000**, in descending order and with each value on a different line.

**[iRvQ1-6]** What is the output of the following Python code fragment?

**s = 'pumpkin'**

**print (s[s.find('x')] \* s.index('p'))**

**[iRvQ1-7]** Add a single pair of parentheses to the following expression so that its value is **6**:

**3 - 2 \*\* 2 + 2 \*\* 2 + 1**

**[iRvQ1-8]** Write the definition of a Python function named **sum\_reciprocals**. It should have three formal parameters named **one**, **two**, and **three**, and it should return the sum of the reciprocals of each of the three inputs. Recall the reciprocal of **x** is **1/x**, and don't worry about runtime errors.

**[iRvQ1-9]** Circle each error in the following code, then briefly describe and indicate its type (one of syntax, runtime, or logical/semantic).

**print "The float value reciprocals of each of 1..10 are:**

**for s in range(10):**

**print 1//s**

**[iRvQ1-10]** The following code has nested **if**-**else** statements, since both the outer **if** and **else** bodies contains their own nested **if/if**-**else** statements. Rewrite this code using **if**-**elif**-**else** statements, so that it has exactly the same behavior as before AND so that there are NO nested **if**-**else** statements.

**if x!=y:**

**if x > y:**

**print('one')**

**else:**

**if x < y:**

**print('two')**

**else:**

**print('three')**