Math 201 - Quiz 3

February 4, 2015

Name __key__

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (3 points) If a, b, and c have all been assigned the value 2, what will their values be after each statement is executed?

    (a) a = b * ++c

    a IS REASSIGNED THE VALUE $2 * 3$

    $\Rightarrow$ $a = 6, b = 2, c = 3$

    (b) a = (b--) + (c++)

    a IS REASSIGNED THE VALUE $2 + 2$

    $a = 4, b = 1, c = 3$

    (c) a = ++b % c

    a IS REASSIGNED THE VALUE $3 \% 2$

    $a = 1, b = 3, c = 2$

2. (2 points) Consider the following program.

```
#include <iostream>
using namespace std;

int main()
{
    int j = 5.7, k = 4.9;

    cout << "j + k = " << j + k << endl;

    return( 0 );
}
```

    (a) What output does this program produce? Why?

    j + k = 9   (THEN A LINE BREAK.)   BECAUSE j & k ARE DECLARED
                                        TYPE int, THEY ARE ASSIGNED

    (b) What single change should be made to produce the actual value of $5.7 + 4.9$? VALUES 5 & 4.

    IN PLACE OF int, USE float