CSE1502-O4 Spring 2009 Exam #1 Open book, open notes. No computers.

y (both type int) are equal to each other, or else "not equal". Circle at least 10 of the 11 errors (3 points each). ANSWERS IN BOLD.

```
If (x = y);
if (x == y)
  cout << 'equal'</pre>
  cout << "equal";</pre>
else (x = ! y) then
else if (x != y) //or just "else"
  cout >> not equal.
  cout << "not equal";</pre>
2. What does the following print? (5 points each)
cout << 5.5 + 1 / 2;
                                5.5
cout << 10 % 4;
                                2
cout \ll sqrt(pow(3.5, 2));
                                3.5
```

for (int i = 10; i > 4 && i < 20;

8

ANSWER: 10 8 6

i = 2

cout << 10 - 3 + 1;

cout << i << " ";

```
int j = 5;
do {
 j = j + 1;
  cout << "j";
} while (j < 5);
```

ANSWER: j

```
double x = 2.5;
while (true)
  if (x > 15)
   break;
  cout << (x = x * 2) << endl;
```

ANSWER: 5 10 20

```
Name
```

3. For the code shown, what would be the values of 1. The following code should print "equal" if x and a, b, and c if the user enters the text shown below in bold? (5 points each).

```
int a = 1;
char b = '2';
double c = 3.0;
cin >> a >> b >> c;
4.5 x 2
         b '.' c 5.0
a 4
123 abc 4.5
```

a **123** b **'a'** c 3.0

4. Write a program that asks the user to enter the radius of a circle and prints its diameter (25 points).

// This program asks the user to // enter the radius of a circle,

```
// and prints its diameter.
#include <iostream>
using namespace std;
int main()
  double r;
  cout << "Enter radius: ";</pre>
  cin >> r;
  cout << "The diameter is "</pre>
       << r*2 << endl;
  return 0;
}
```