**Review Sheet #4**

MTH 125

Fall 2018

1. Write C++ functions that will evaluate the following functions.

Then write a function main ( ) that calls these functions.

2. What are errors and bad practices in this example of a function?

double circle\_area( double radius)

{

if (radius >= 0)

{

radius=2 \* 3.14 \* pow(radius,2);

return radius;

}

}

3. Write a function that checks whether a number is odd. Return the appropriate value.

4. How is this expression called, when and how is it used (where is it placed in a program), and what is a drawback of using it:

double circle\_area(double radius);

5. What is the output of this program and why?

#include <iostream>

using namespace std;

int global\_var=1000;

int some\_function(int a)

{

int global\_var=2;

return global\_var\*a;

}

int main()

{

cout<<some\_function(2)<<endl;

cout<<global\_var;

return 0;

}

6. Implement a function that swaps values of two integer, which are **passed by reference** to the function.

Why is passing by reference more efficient than passing by value?