Functions exercises

1. Write a function called **cylinderVolume** that takes two arguments: the radius of the cylinder and the height of

the cylinder, and returns the volume of the cylinder.

Test the function by calling:

myVol = cylinderVolume( 10, 40 )

print( “The volume of the cylinder with radius 10 and height 40 is” + str( myVol ) )

2. Write a function called **getSlope** that takes x1, y1, x2 and y2 as arguments and

* returns “Undefined” if the slope is undefined
* returns the value of the slope otherwise

Test the function by typing

a = int(input( “Enter the first x value” ))

b = int(input( “Enter the second y value” ))

c = int(input( “Enter the first x value” ))

d = int(input( “Enter the second y value” ))

print( “The slope of the line between these two points is “ + str( getSlope(a,b,c,d) ) )

3. Use your solutions to problems from Assignments 1, 2, 3A and 3B to write these functions:

**def getGCD( a, b )**

Test it by typing

print( “The GCD of 12 and 15 is “ + str( getGCD(12,15)))

**def getOrdinalNumber( n )**

Test it by typing

for i in range( 1, 26 ):

ordNumber = getOrdinalNumber( i )

print( ordNumber )

This should print to the screen

1st

2nd

3rd

4th etc…