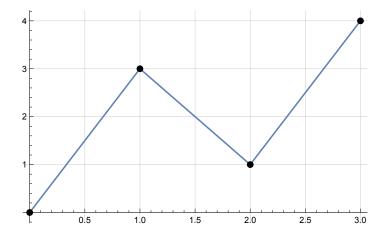
Mathematics 150 -1-

Assignment #1

Name _____

Due Wednesday, 30 August 2017

1. (5 points) A function f is pictured below. Sketch the graph of y=2f(x+2)+1. Calculate the transformation of each of the indicated landmark points.



Mathematics 150 -2-

2. (5 points) The graph of the functions f and g are given below.

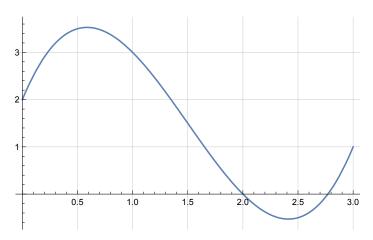


Figure 1: The graph of f(x).

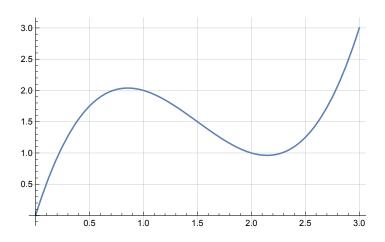


Figure 2: The graph of g(x).

Let p(x) = 3f(x) + 4g(x) and q(x) = f(x)g(x) + f(g(x)). In each case, perform the indicated operation. (a) p(0)

- (b) p(2)
- (c) q(1)
- (d) q(3)