

Lab Activity #4

Let

$$f(x) = \begin{cases} 2x - 3 & , x < -1 \\ \frac{2}{3}x - 1 & , x = -1 \\ \frac{3}{7}x - 2 & , x > -1 \end{cases}$$

and

$$g(x) = \begin{cases} -\frac{6}{7}x & , x \geq 3 \\ 0.5x - 1 & , x < 3 \end{cases}$$

Write, run, and test a Fortran 90 program, which computes $(f \circ g)(x)$.

Input: x , where x is any real number.

Output: $(f \circ g)(x)$.

Here is a sample run (your program should do exactly the same thing):

===== Sample run starts here. =====

Enter your value of x :

-2.0

$(f \circ g)(-2.0) = -7.0$.

===== Sample run ends here. =====

Do not forget to run and test your program.

NOTE: You should only use the material which we will cover by Sep. 11.