The folder “ChainRule” contains the same program as the “FiniteDifferences” and “DualNumbers” exercises, but now uses the chain rule to calculate the derivative.

Your mission is to implement the body of the FDerivative function using the chain rule to make the program work.

HINT: if you hit problems, you can use finite differences to know what the derivatives SHOULD be (approximately) to help debug what might be going wrong with the chain rule.

# More Things To Try:

* Try modifying the functions G,H,I and see if it still works. (don’t forget to update the derivate functions to match)
  + HINT: With nested functions it’s easy to accidentally make a function which doesn’t have a minimum, and just descends into infinity. This will cause you to hit a NaN.
  + HINT: If you find yourself hitting NaNs, don’t sweat it too much, and have a look at the solutions.docx file for an explanation.
* The function F is a single nested function. Can you make it be the sum of two nested functions and implement FDerivate to accommodate that?