Project I

For this project you will need to do the following:

1a) Download and install Mathematica on your computer

or

1b) Get access to WolframCloud

You will be able to complete the project using either of these options and what matters is what modality works best for you and what technology you are using.

2) Download the two Mathematica files and open them with Mathematica or WolframCloud.

3) For the file "Project 1" execute the program by pressing shift+enter at the same time.

4) Move the two sliders that control the secant line and use the secant line to estimate the slope of the function at $x = 2$.

5) Using that slope find the tangent line to the function f at $x = 2$. Use the slope determined in step 4 and the fact that the tangent line goes through the point *(2,0)* to find the equation of the tangent line.

6) Enter your equation into the space provided in the Mathematica file "Project 1 – submission"

7) Press shift + enter to see if you did your work correctly.

8) Upload the file "Project I – submission" to Canvas.