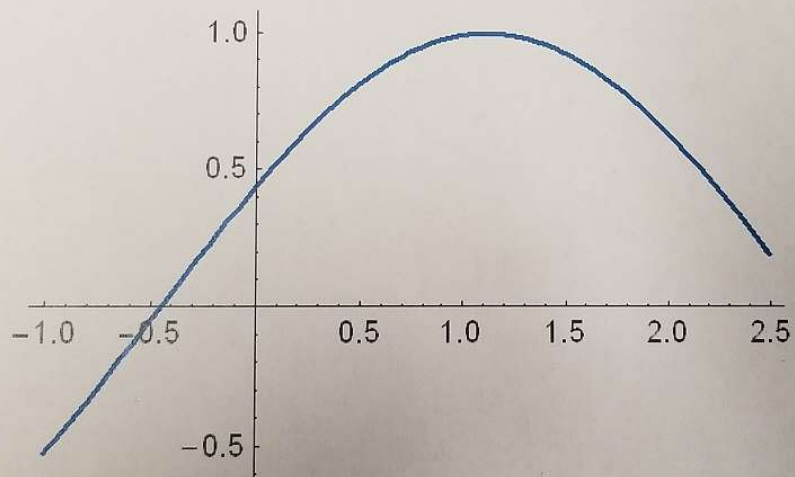


Small Group Programming Project

As a collaborative effort, your task is to construct a computer program that is able to find a zero of the following example function:

$$f(x) = \sin(x + 0.45)$$



You are to find a point on the x-axis where the value of $f(x)$ is very close to zero.

You will use the bisection method to start until the interval is less than 0.5 in width. Then figure out how to use Newton's method to continue from that point until $f(x)$ is less than 1.0×10^{-9} in absolute value. In other words, develop a hybrid method using the bisection and Newton's method.

Please print your names below:

Ethan Hann