

Ethan Henry

Asgn2 Writeup

Throughout my lab, I learned many new ways of calculating approximations. Firstly, though I had taken Calculus in High School, it's been a while, and I wasn't entirely sure how to approach the problem. I had also never used Pade approximations. Both of these were difficulties that I had to overcome to finish the lab. After completing the lab I noticed some important differences between my result and the result of the computer's approximation for the trigonometric functions. Though I can only guess as to the cause of this, it may be that the computer did many more calculations with extremely small step sizes, as the more calculations you do, the more accurate an approximation will be. As for the exponential function, I was able to match the output almost exactly, and I can probably attribute this to setting up a for loop that ends after a predesignated accuracy point, which the computer may also share.