

Ryan Owens
CS490 Simulation
Program2: Acceptance-Rejection Report

I was initially expecting the results of the simulation to be a linear growth of accuracy with the actual value of Pi. While the 100 points does come relatively close to Pi (usually 3.0 ± 0.2) the values for 1,000 and 10,000 points both shoot over Pi (usually around 3.4). In an attempt to understand this further I added another experiment with a value of 10,00,00,000 points. The results were far closer to Pi. The larger set of points was able to calculate 3.14 with relative persistence.