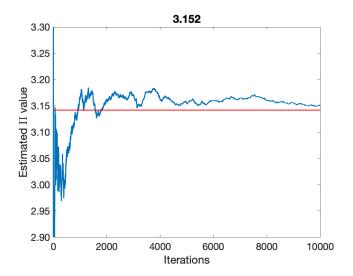
Homework 7

Monte Carlo method

Write matlab script to estimate the value of π using Monte Carlo method (random numbers). Calculate relative error (%) for 10^2 , 10^4 , 10^6 iterations.

Draw the graph number of iterations versus estimated π -value (see example below). The red line represents the solution or the true value of π .

MATLAB code for plotting red line at π is: > yline (pi, 'color', 'r', 'LineWidth', 2)



If you run your script several times, is the relative error always the same? Read the Matlab documentation and familiarize yourself with the rng ("default") command and the *seed*.