The MSE vs p curves obtained both theoretically and in simulation are plotted in the figure below.

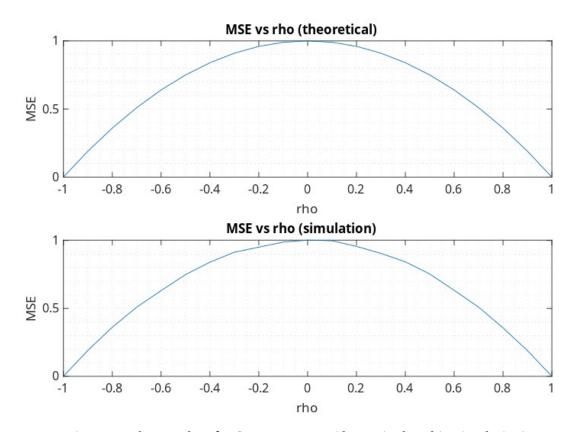


Figure 1: The graphs of MSE vs p curves (theoretical and in simulation)

We obtained similar graphs for analytical and numerical results. Since we used too many samples (N = 1E5) to calculate MSE numerically, we obtained almost smooth curve. From graph, we can observe that the MSE becomes smaller as  $\rho$  becomes greater in magnitude.