Each MATLAB script file when run outputs the exact solution and approximated solution in 1 plot. The File name indicates the k value and which part (ie boundary condition) it solves for. For k=1 the lines are coincident but for k>1 they start to separate.

Plots for k=1 for part 1 and 2 follow:

Part 1 for k=1



Part 2 for k=1

