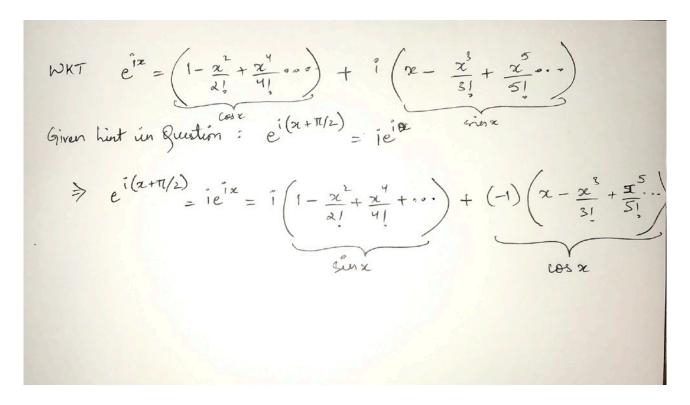
ag7890-HW3 HPC Extra credit

Q2)

Idea:



For following intervals the domain:

sin(x)=sin(pi-x) for x in [3pi/4,5pi/4]
sin(x)=cos(x-pi/2) for x in [pi/4,3pi/4]
sin(x)=-cos(3pi/2-x) for x in [5pi/4,7pi/4]

Reference time: 17.6219

Taylor time: 2.4198 Error: 6.928125e-12 Intrin time: 0.8572 Error: 6.928125e-12 Vector time: 0.5064 Error: 2.454130e-03

-----Calculations for outside [-pi/2, pi/2]-----

Reference time: 40.2313

Taylor time: 46.2948 Error: 6.930900e-12 Intrin time: 54.8270 Error: 6.930900e-12