HW 5, problem 1 3/12/23 Philip Villsen For this proded gradient desilect was used due to the timbations of calculating the Hersian and therefor a loss function was implemented. less function = datapants - P(A12, A21) Min Il lass function 112 A21, A12 Method While gradeau 60.01 ; Line Search (Att, AZI get disrection that will reduce lears value the mostake a sepstep in that director calabate new A12, A21 Calulate new considerent. if criteria is not met repeat-

Sulution: graph "Curve-Fitting. png"

the initial quess was A12=1, A21=1 once stratules were completed in it converged at A12=1, 952, A21=1.694

When looking at the wirm first it can be seen that it firsts Quite well.