Eliton Machado da Silva

8)

Usado o Algoritmo de Diferenças Finitas com

Questão 1:

h	erro	erro	erro
0.1	-0.7381240949060053	-0.8496589053044501	-2.7474631958845244
0.05	-0.7878935990431524	-0.8435217455606286	-5.778849548042055
0.025	-0.8141874565698748	-0.8419839043612476	-11.890618163097807
0.0125	-0.8277032149599695	-0.8415992289239593	-24.140212547504095

Questão 2:

h	erro	erro	erro
0.1	0.5814407518041309	0.53940225216976	-0.2375200954801833
0.05	0.5611096003704552	0.5400772080464322	-1.2808244094696932
0.025	0.5507638656255542	0.5402460261367148	-3.387647350039652
0.0125	0.5455473607818373	0.540288235605515	-7.6116100786716325

Questão 3:

h	erro	erro	erro
0.1	0.6339453451314703	0.5378749671497829	0.7843027996920783
0.05	0.5879145857912582	0.5396937752057396	0.8150236540302198
0.025	0.564283765667799	0.5401500670281534	0.8307796538570921
0.0125	0.552334003349344	0.5402642395194945	0.8387462947837128

Questão 4:

h	erro	erro	erro
0.1	-0.7697862505149877	-0.7333039339652688	-3.7700475826666446
0.05	-0.7535012778375649	-0.7351455971865994	-7.995032750749433
0.025	-0.7447977865208766	-0.7356055896704694	-16.429108631579375
0.0125	-0.7403184552503506	-0.7357205609691286	-33.28864305209152