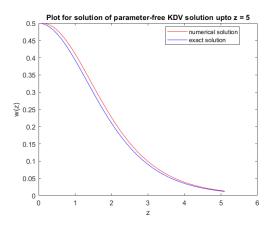
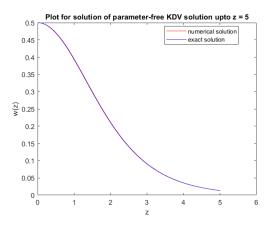
Language: MATLAB Source code: 1) problem_3e.m

- 2 doriv.m 3 rk4.m





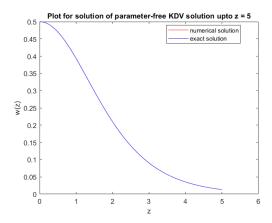


Fig: C

- produced plot: 1 problem_3c_d2 = 0.1.prg
 - 2 problem_3c d2 = 0.01. png
 - 3 problem _ 3c dz = 0.001. png

Here, in this document, 3 figures. (fig: A, Fig: B, and Fig: C) are shown.

In fig: A, virible difference in the trajectories of numerical solution and exact solution, of the parameter-free KAV equation; in noticed In this case $d \neq = 0.1$.

In Fig. B, difference in trajectories of numerical solution and exact solution is hardly wisible.

But, the co-existence of both the curren is still noticable. In this case,

dz = 0.01.

In Fig: c, Both the trajectorier of exact roolution and numerical roolution overlap. In thin cane $d_2 = 0.001$