Language: MATLAB

Source Code: 1) problem_3d.m

2) deriv.m

3) rk4.m

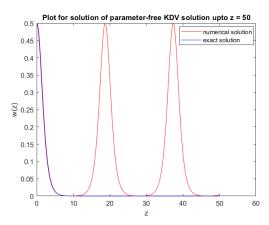


Fig: A

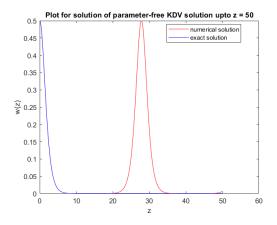


fig: B

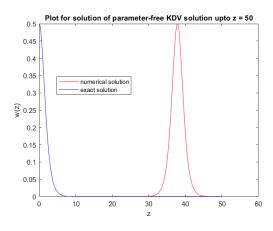


Fig: C

- plot produced: O problem_3d_dz=0.1.png
 - 2 problem 3d dz = 0.01. Png
 - 3 problem -3d-d2 = 0.001. prog

Here, in this document, 3 figures (Fig. A. Fig. B. and Fig. C.) are shown. In all the figures, there are localized traveling peaks or so to say "solitons" observed.

- In fig: A, there are three peaks at 2=0,2=189
 and 2=37.3 respectively. In this case d4=0.1
- In fig. 6. there are two peaks at 2=0 and 2=27.73 respectively. In this case, d2=0.01.
- In fig:c, there are two peaks at \$=0 and \$=37.9
 respectively. In this case, d==0.001.