Report exercise2.

Code

Error\_script.m

Used to plot the graphs, call the RK2 function, and choose constant values.

En bild som visar skärmbild

Automatiskt genererad beskrivning

RK2.m

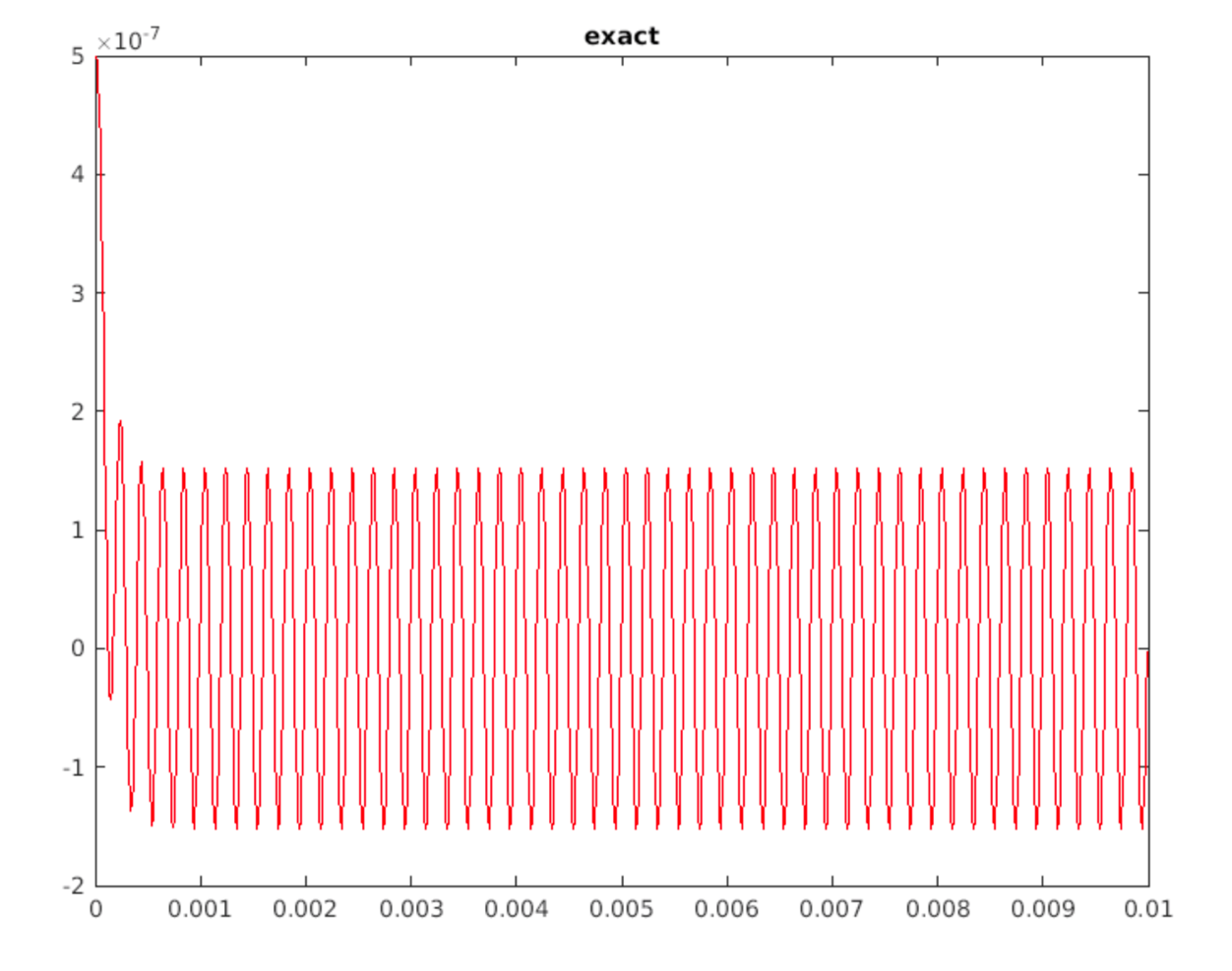
Used for defining the RK2 function that is then in turn used in Error\_script.m for numerical analysis.

En bild som visar skärmbild

Automatiskt genererad beskrivning

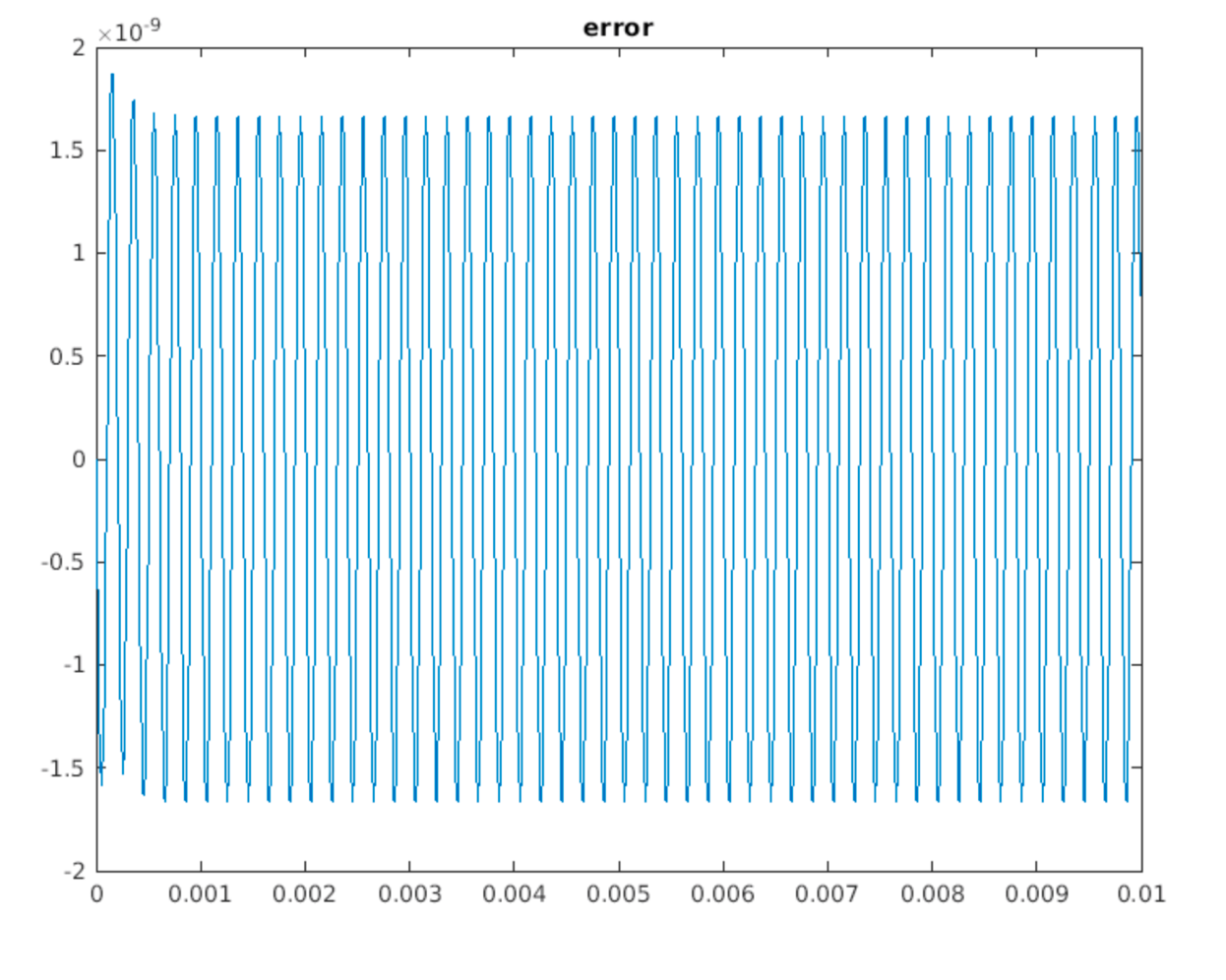
Graphs

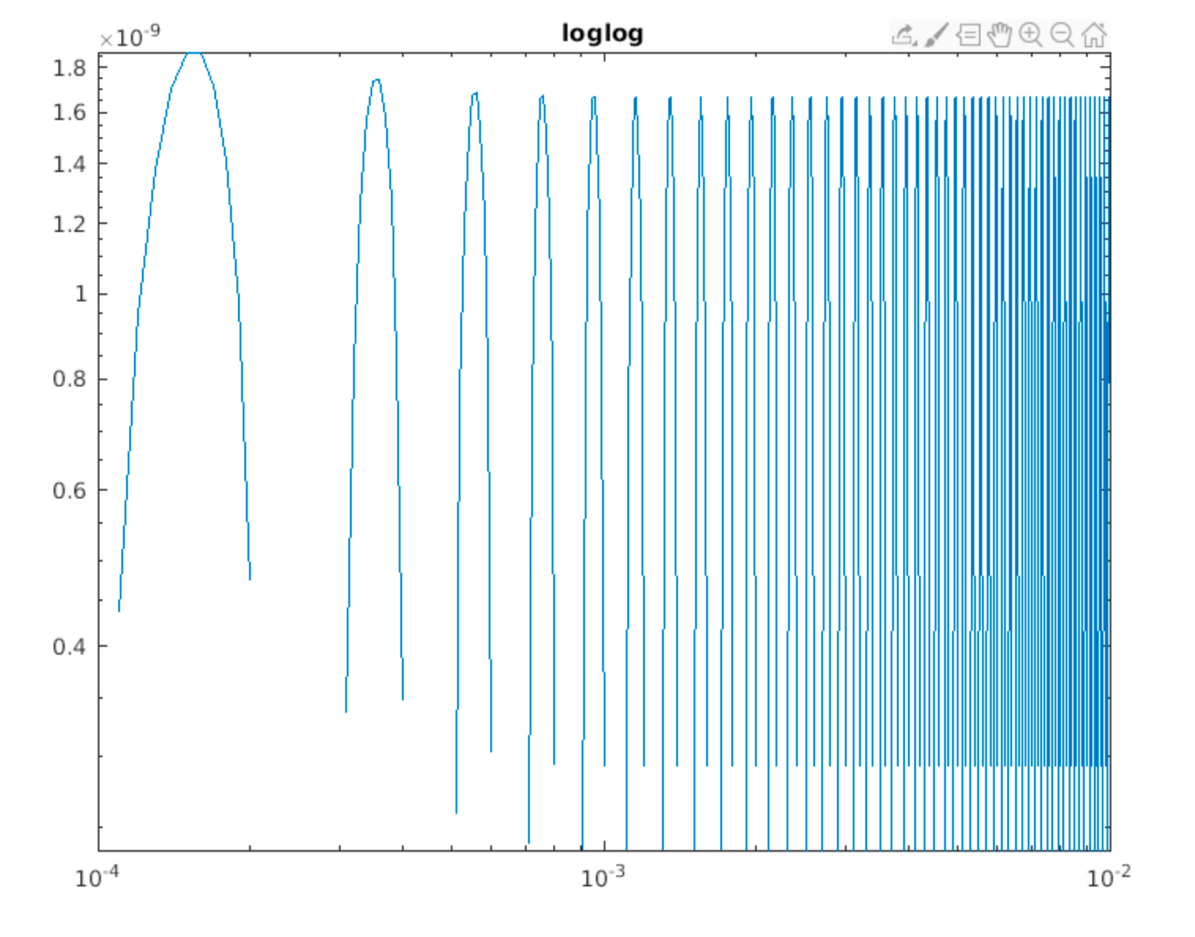
A = 0.5 (Heun’s method)



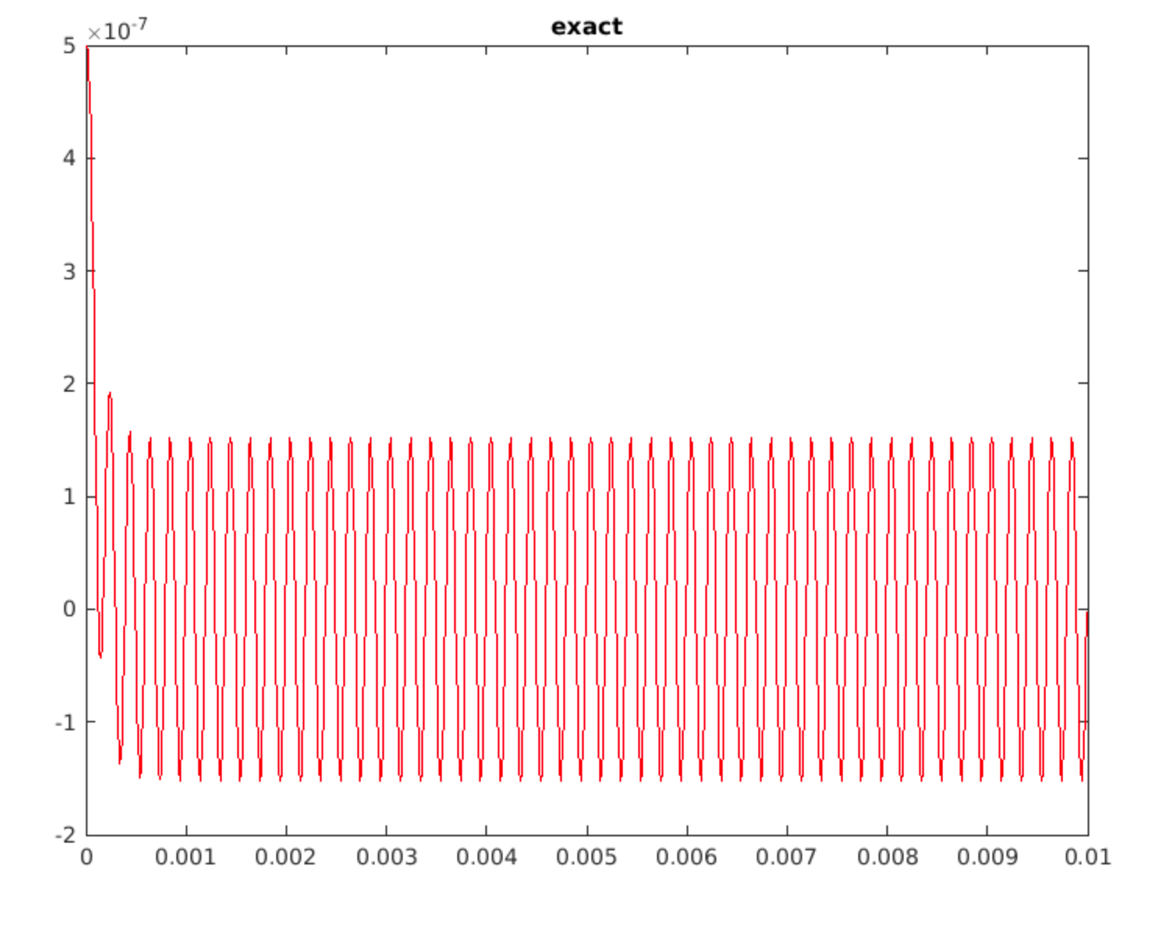
En bild som visar skärmbild

Automatiskt genererad beskrivning



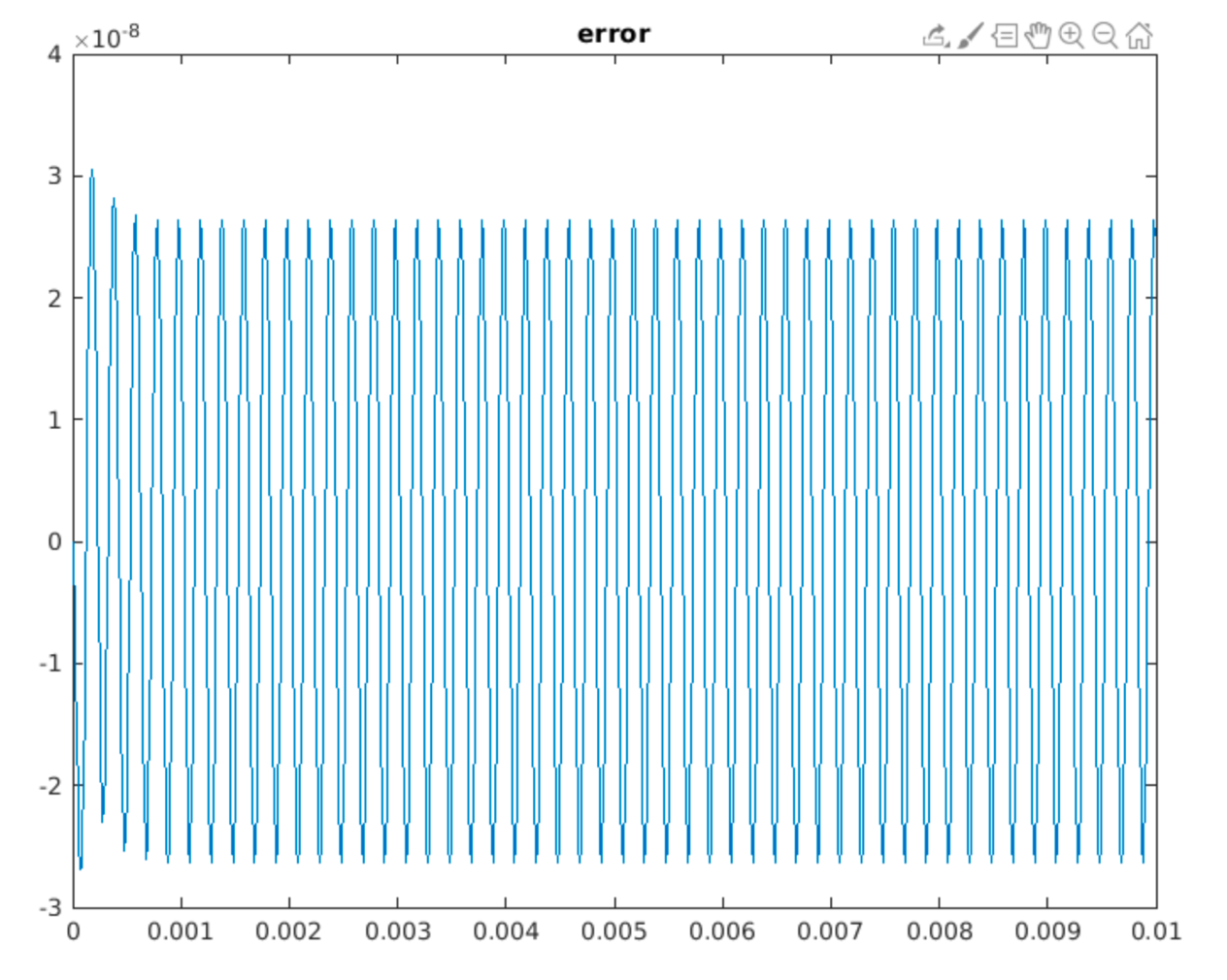


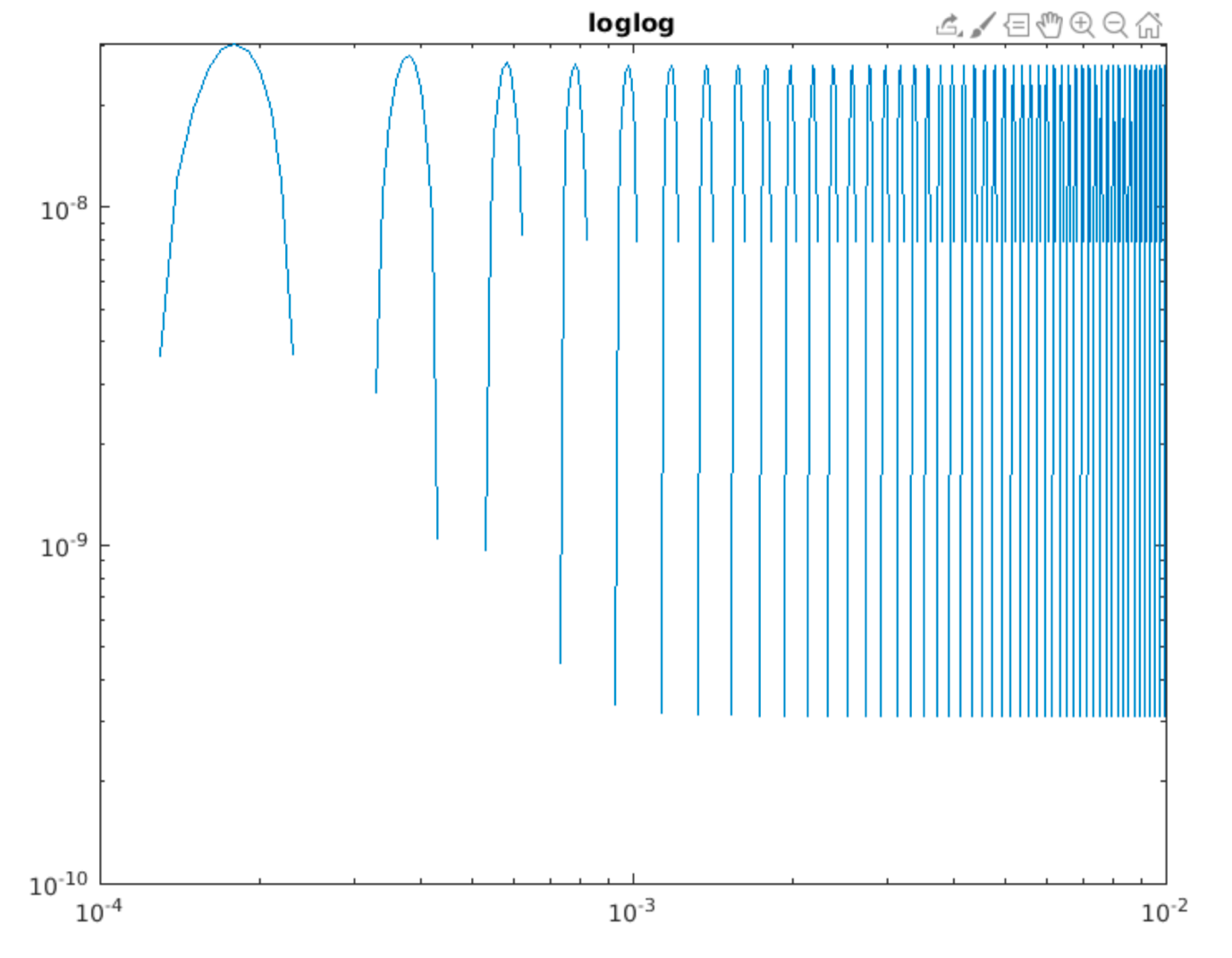
A = 0.0 (midpoint method)



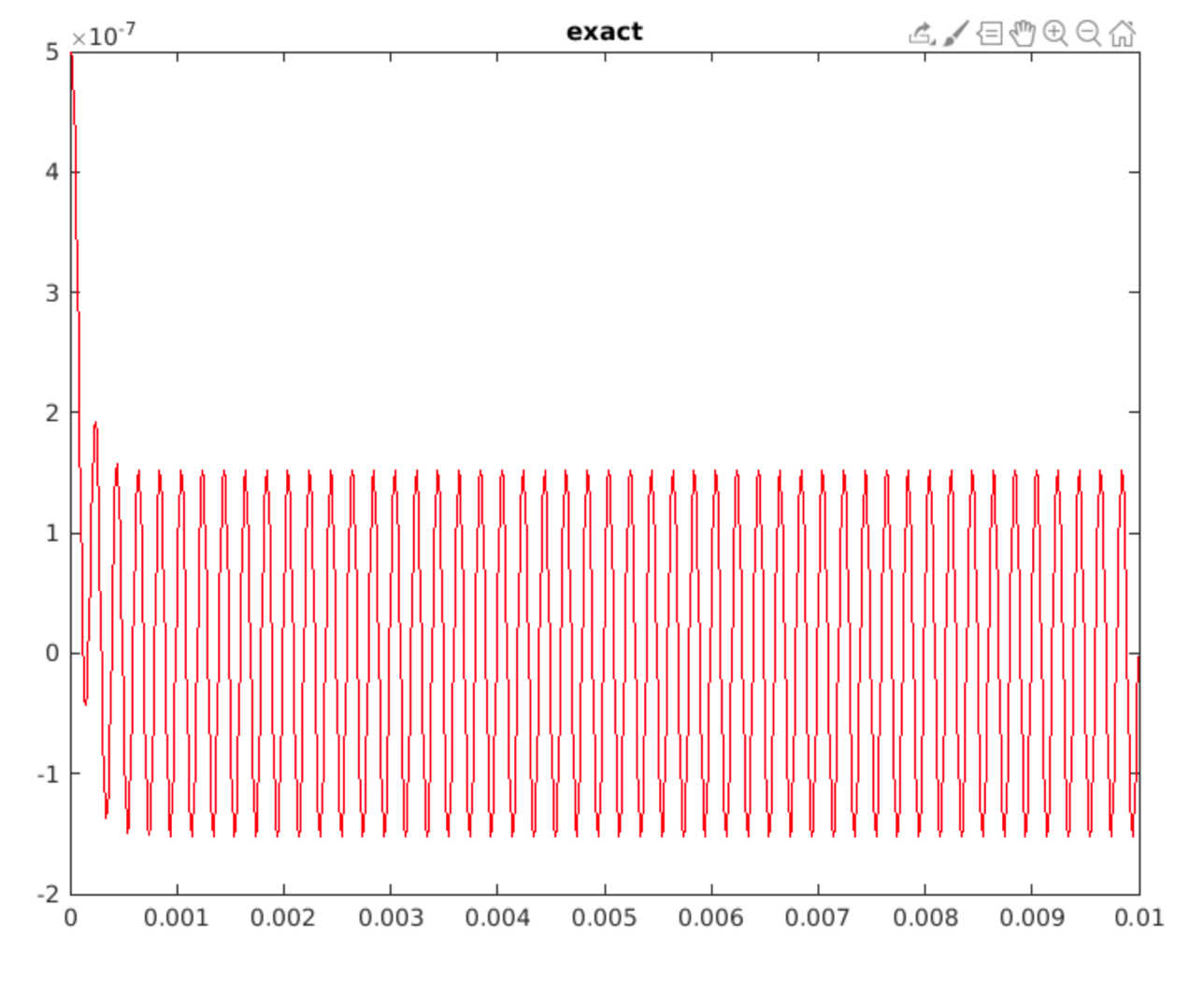
En bild som visar skärmbild

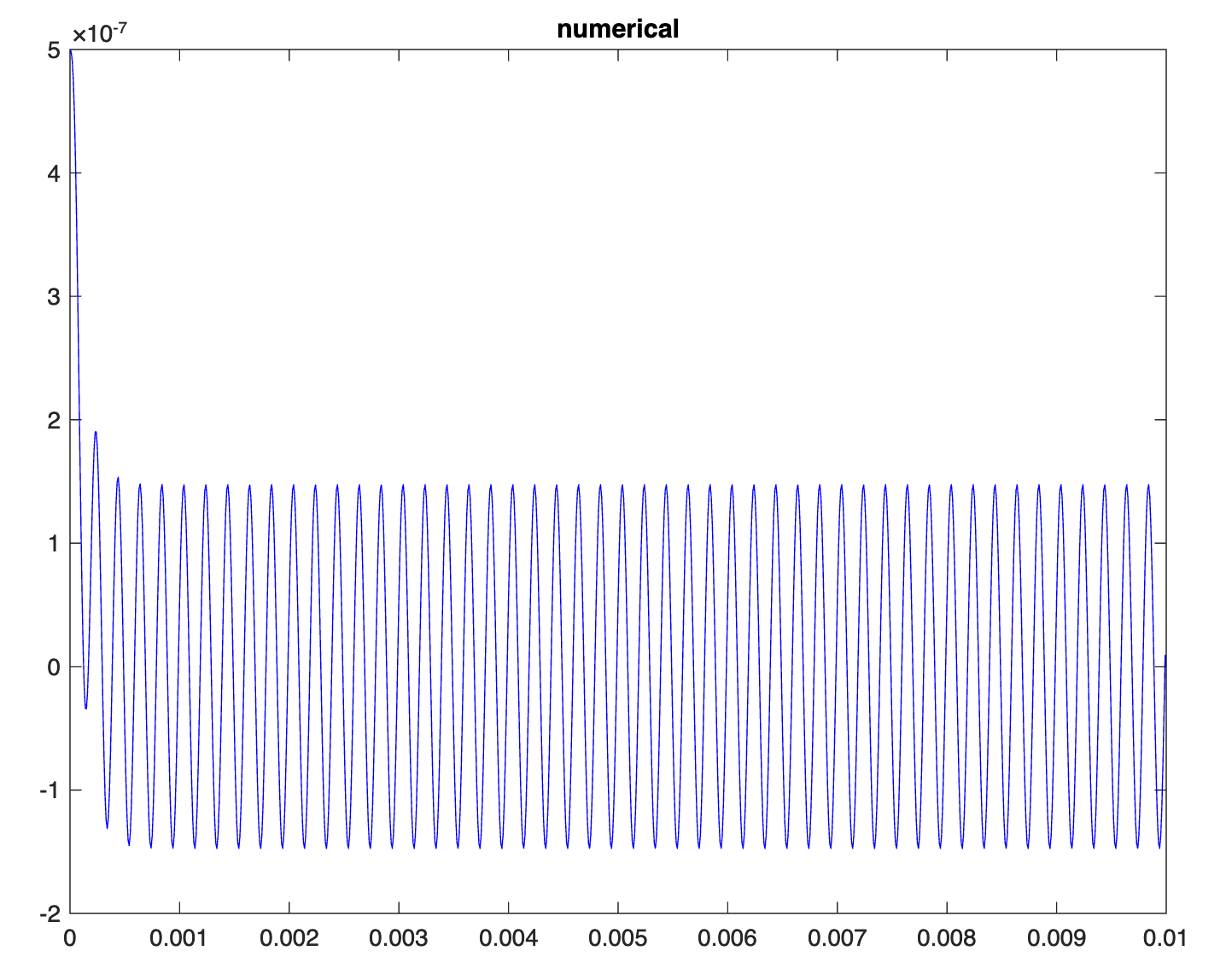
Automatiskt genererad beskrivning





A = 0.3 (random method)





En bild som visar skärmbild

Automatiskt genererad beskrivning

