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HW 7

Aero 300 Liam Hood

8.1.1b

8.1.1b

Heat Function by FDM

Actual Heat Function

Heat Function by FDM with large time step
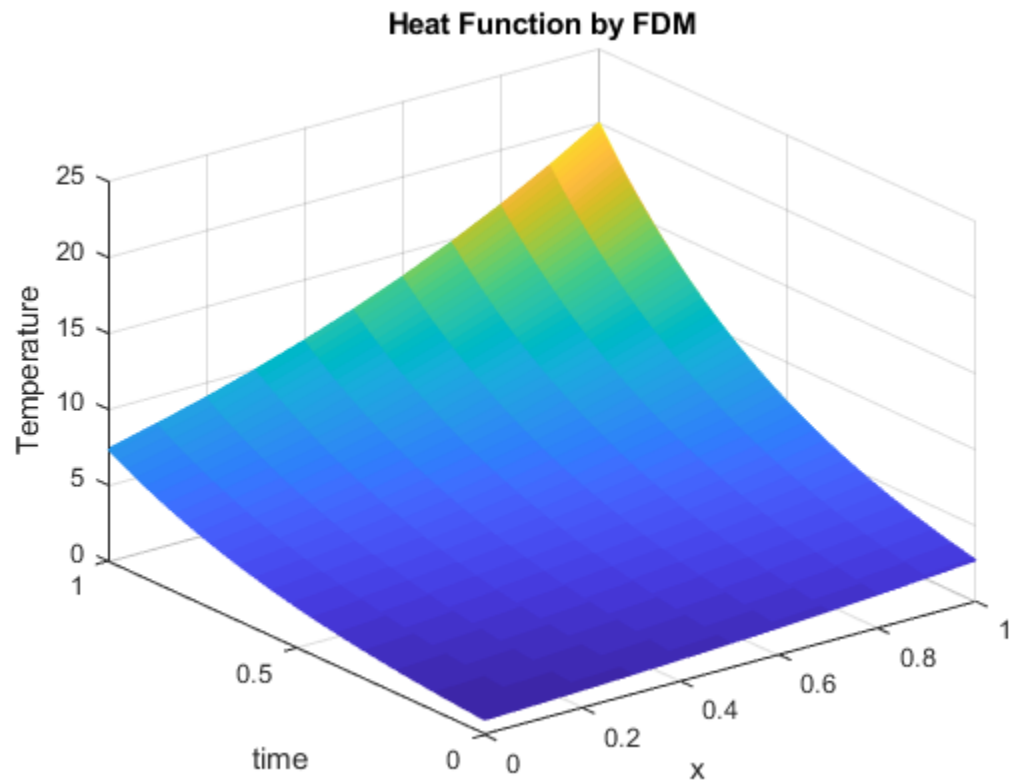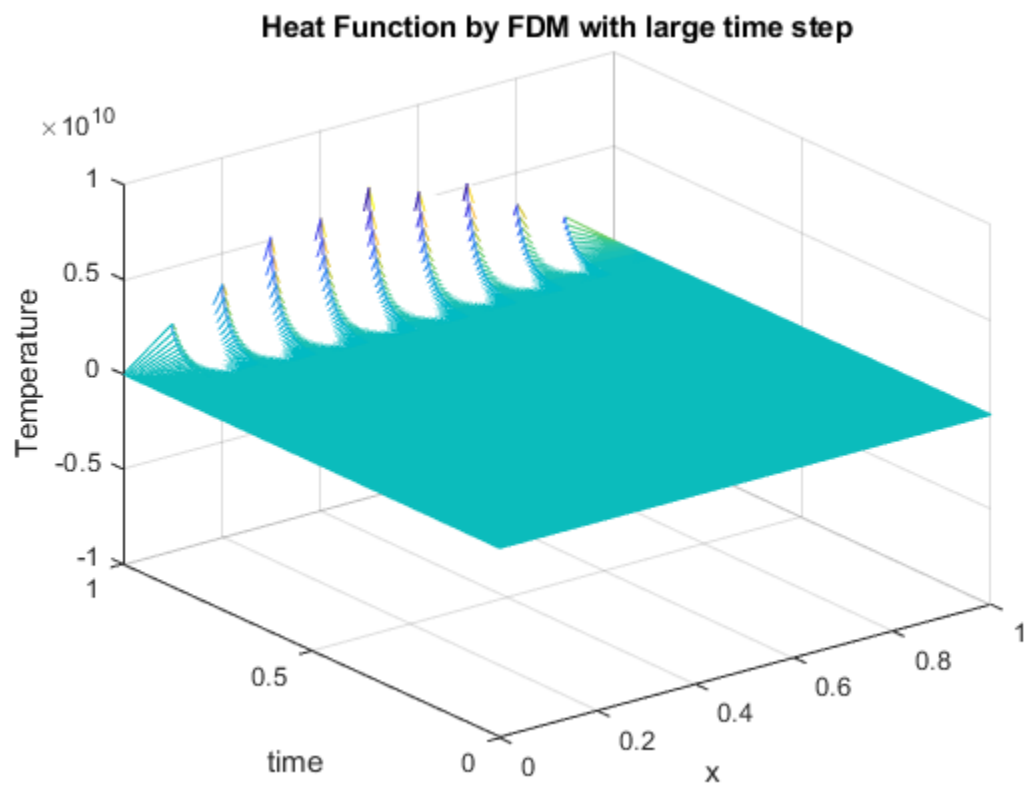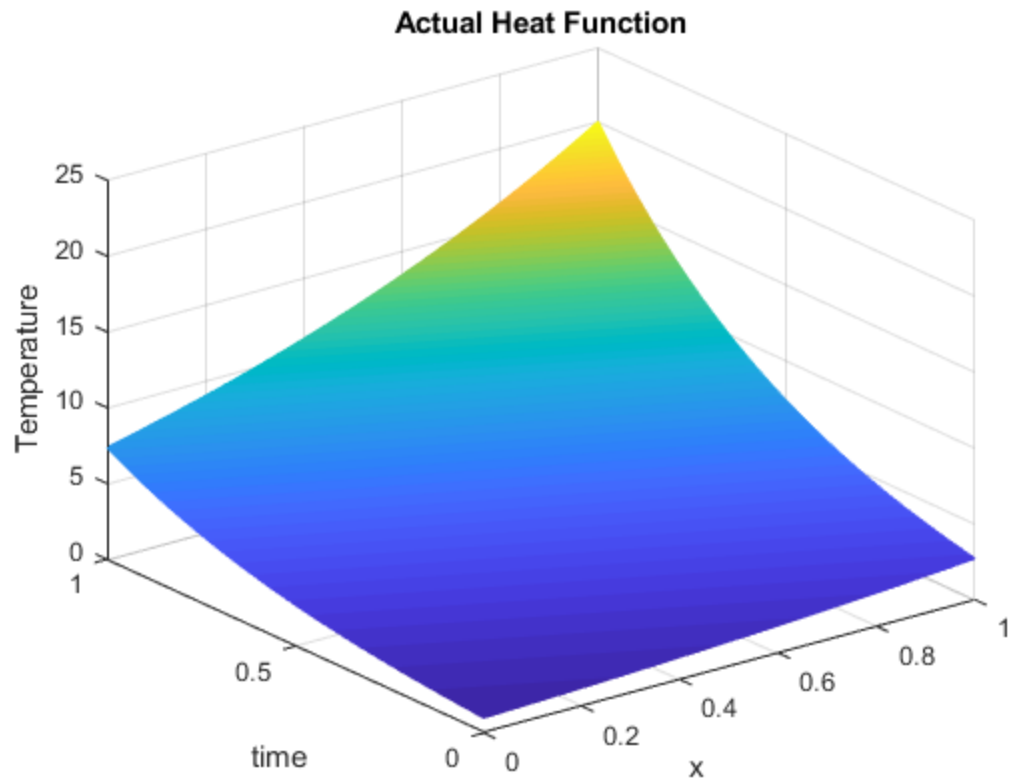
8.1.3b

Time_step	*Actual_value*	*Estimated_value*	*Error*
0.02	*12.182*	*9.9309e+123*	*9.9309e+123*
0.01	*12.182*	*3.9804e+226*	*3.9804e+226*
0.005	*12.182*	*NaN*	*NaN*

8.2.1b

Wave function
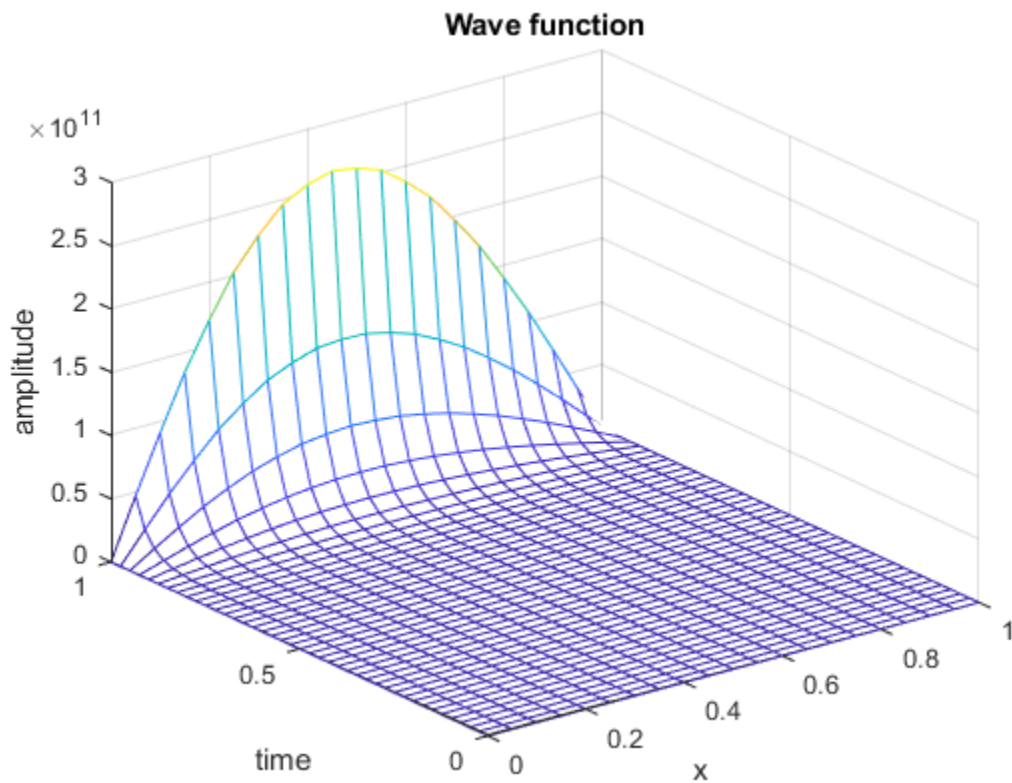
Functions

The graph behaves strangely when k is greater than .0026. The solution
gets wavy on one side and flat on the other instead of the smooth curve
it is meant to have.

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