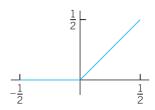
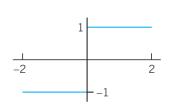
Tutorial 8 Fourier series of 2L-periodic functions

Is the following function even or odd or neither? Find the expression of f(x) at first and then find their Fourier series. Show the details of your work.

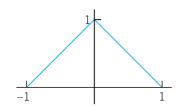
1.



2.

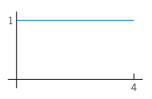


3.



Half-range expansions: find (a) the Fourier cosine series, (b) the Fourier sine series. Sketch f(x) and its two periodic extensions. Show the details.

4.



5.

