Q1. a) In relation to Fourier analysis state the meaning and significance of
i) odd and even functions
ii) half-wave symmetry $\{$ i.e. $\mathrm{f}(t+\pi)=-\mathrm{f}(t)\}$.

Illustrate each answer with a suitable waveform sketch.
b) State by inspection (i.e. without performing any formal analysis) all you can about each of the periodic waveforms shown in FIGURE 1 in terms of their Fourier series when analysed about $t=0$.


FIGURE 1

