

IA Digital Electronics - Electronics

Nandor Licker <n1364@cl.cam.ac.uk>

Due noon before the day of supervision

Questions

1. Exercises 20-25 from the exercise sheet
2. The following diagrams show the response of circuit to a signal, captured using an oscilloscope. The first channel (yellow) shows the amplitude of the input signal, generated using a function generator. The second channel (purple) measures the output voltage of the unknown circuits. For each diagram, identify any active components it might include (op-amps or MOSFETs) and identify the relative values of any passive components (resistors, capacitors, etc), if they are relevant.

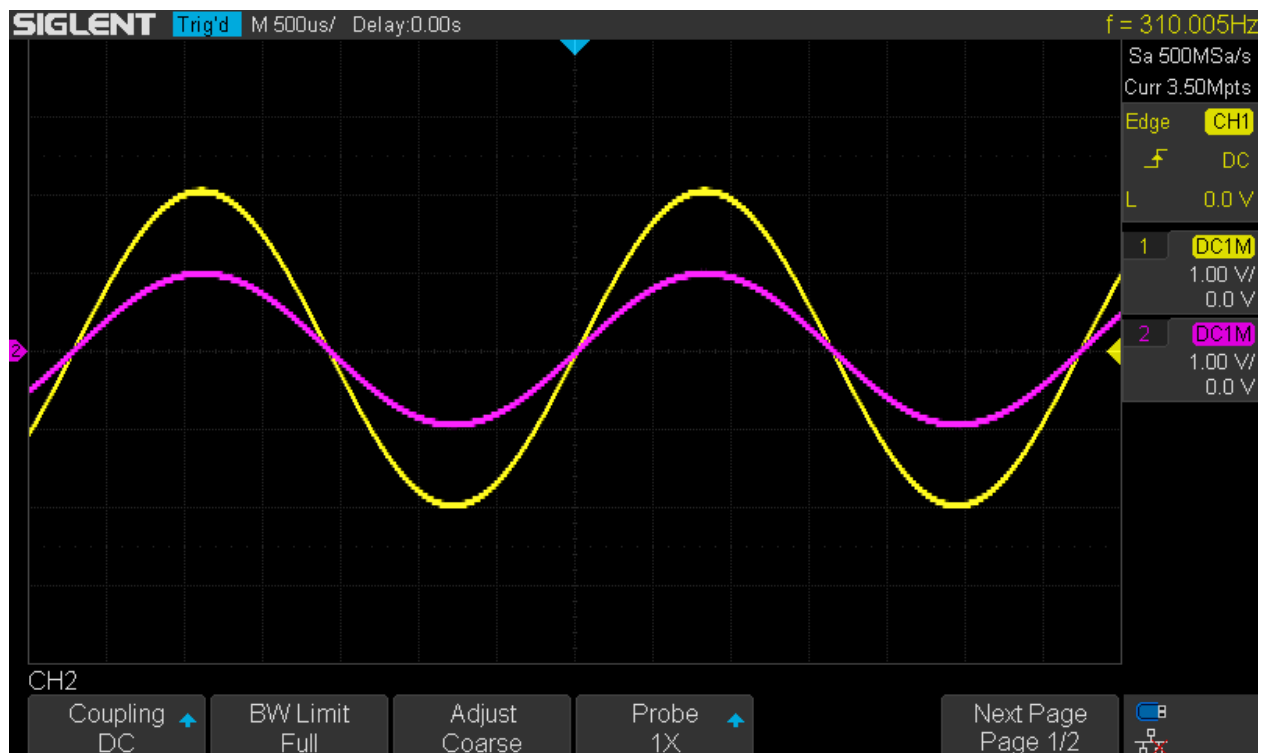


Figure 1: Wavy waves

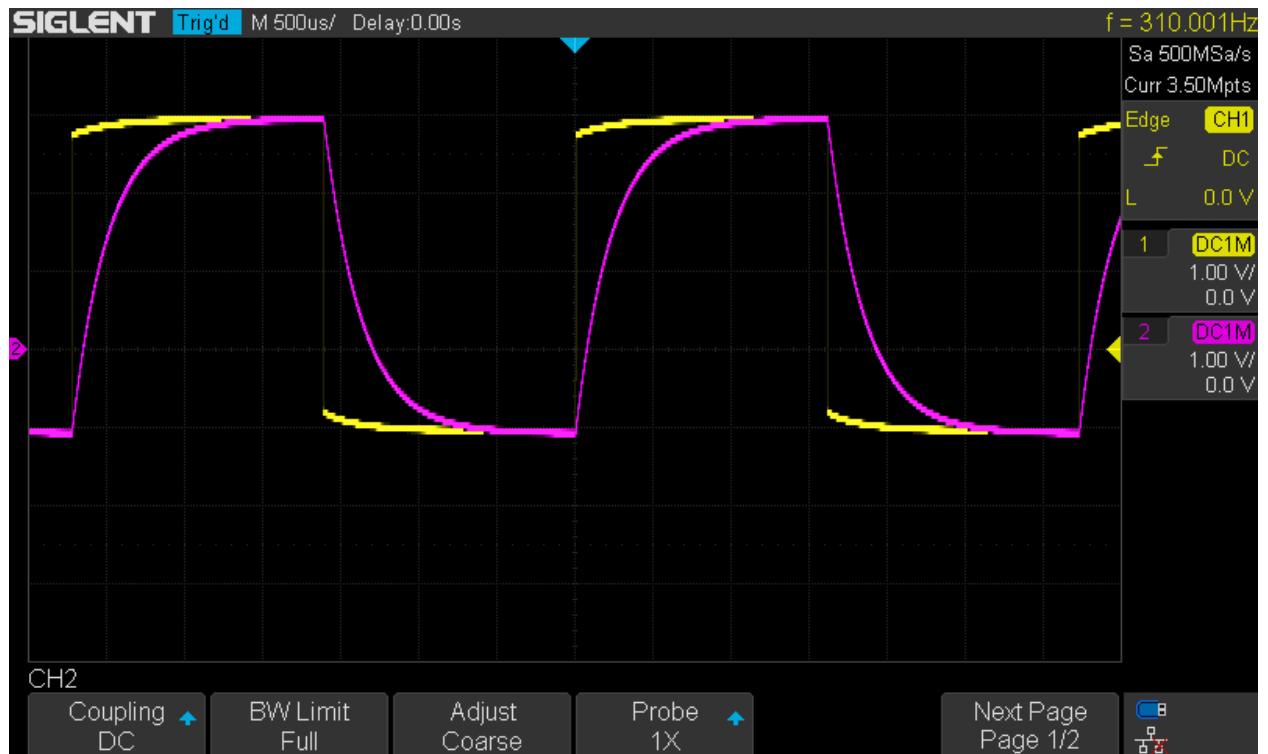


Figure 2: Funky squares

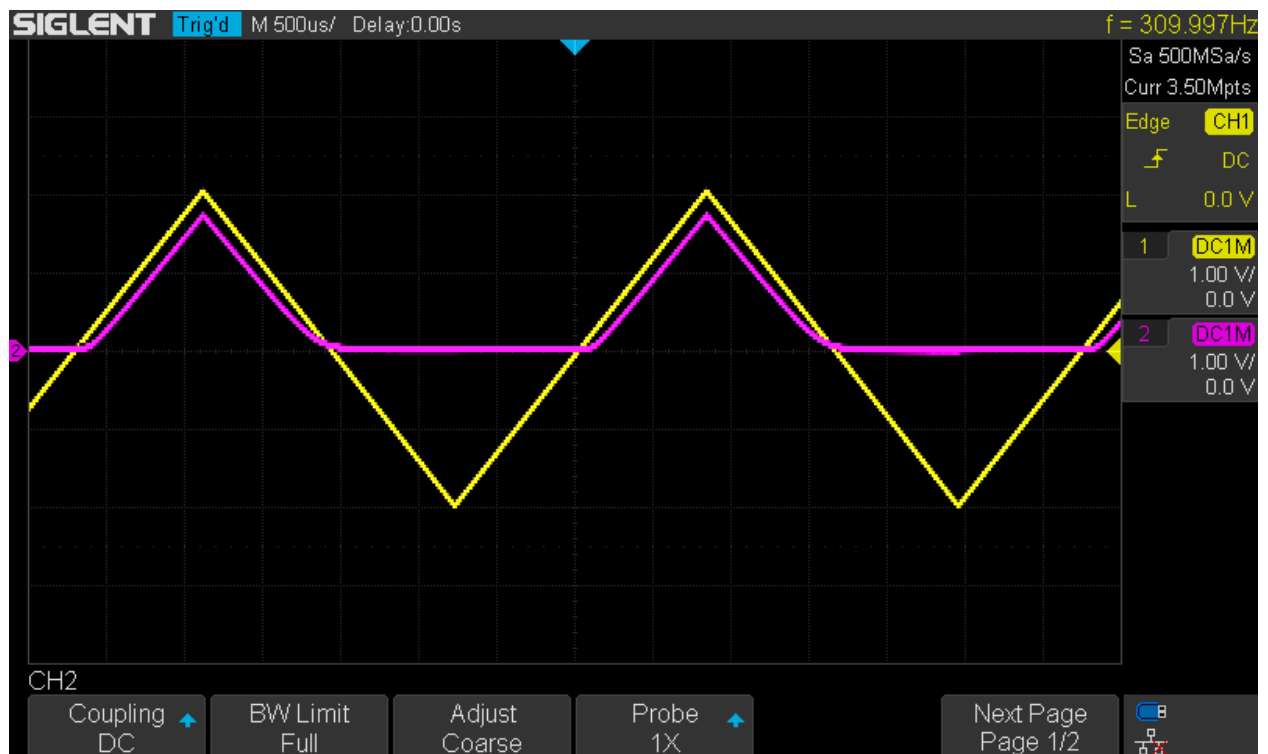


Figure 3: You shall not pass



Figure 4: Very linear

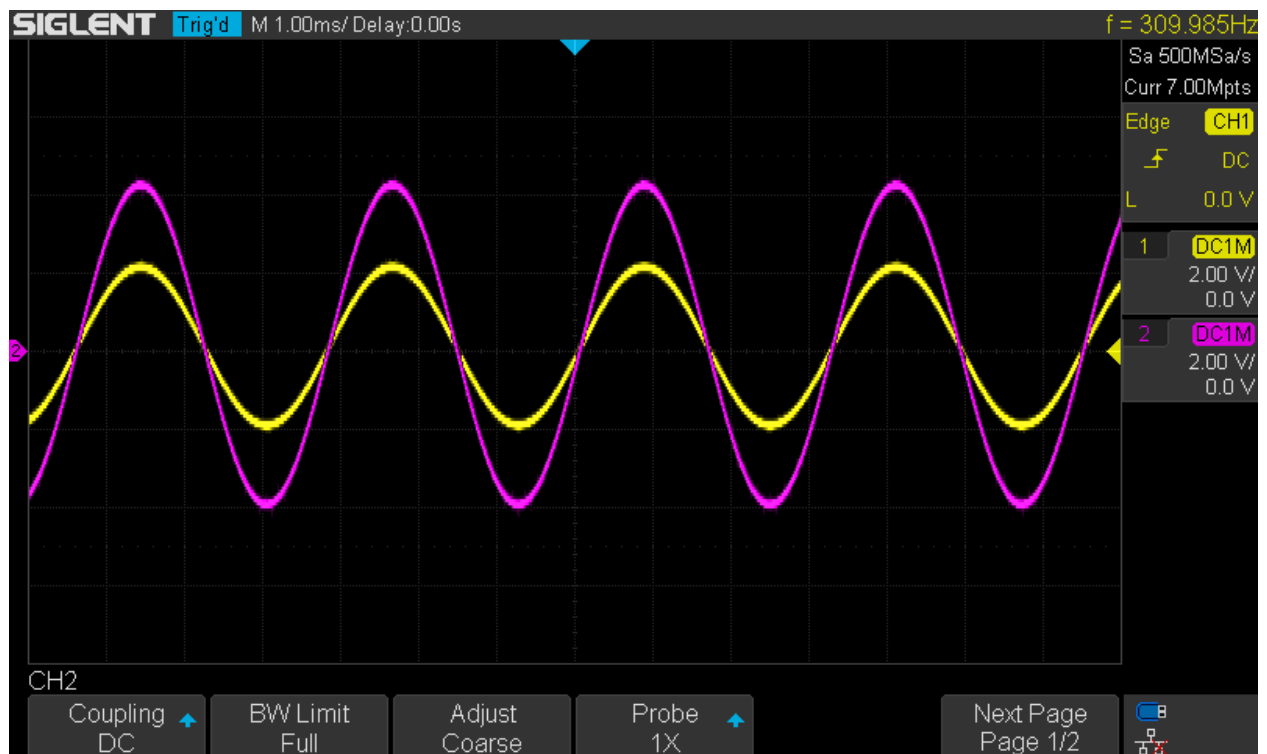


Figure 5: Why be quiet

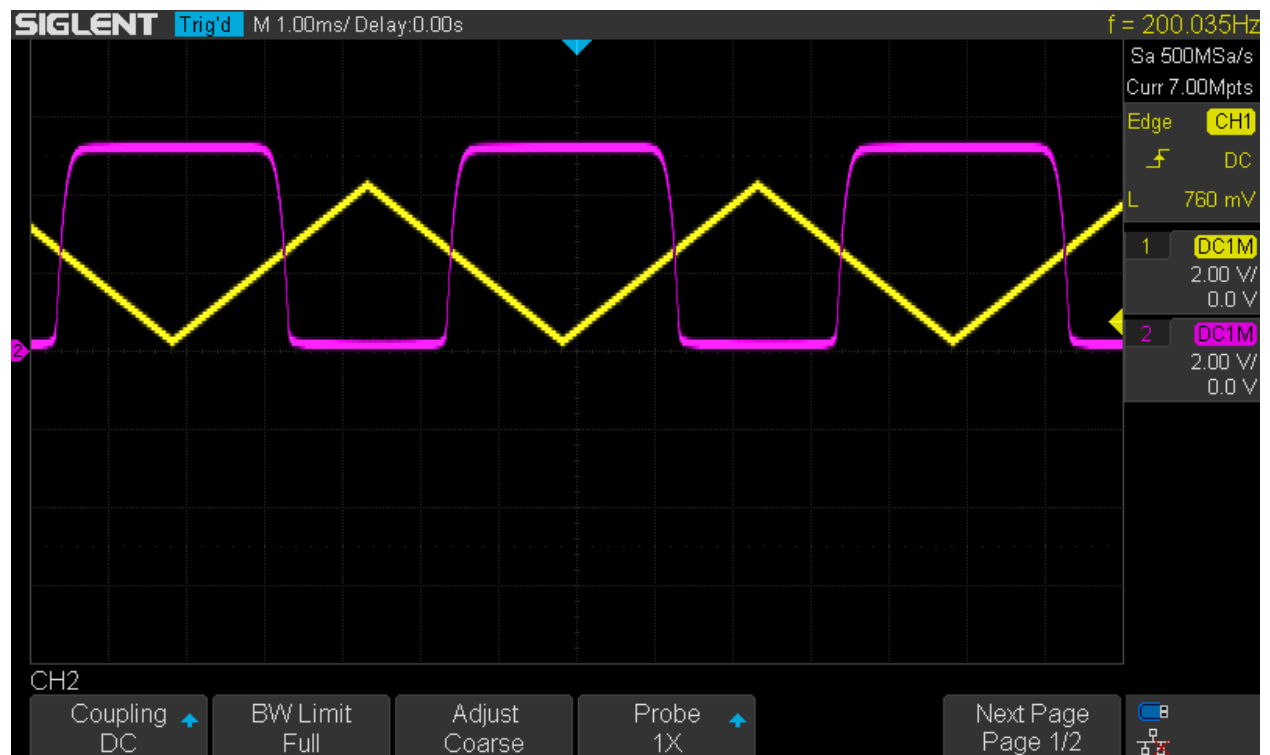


Figure 6: Atypical