

# IA Digital Electronics - Supervision 2

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*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.

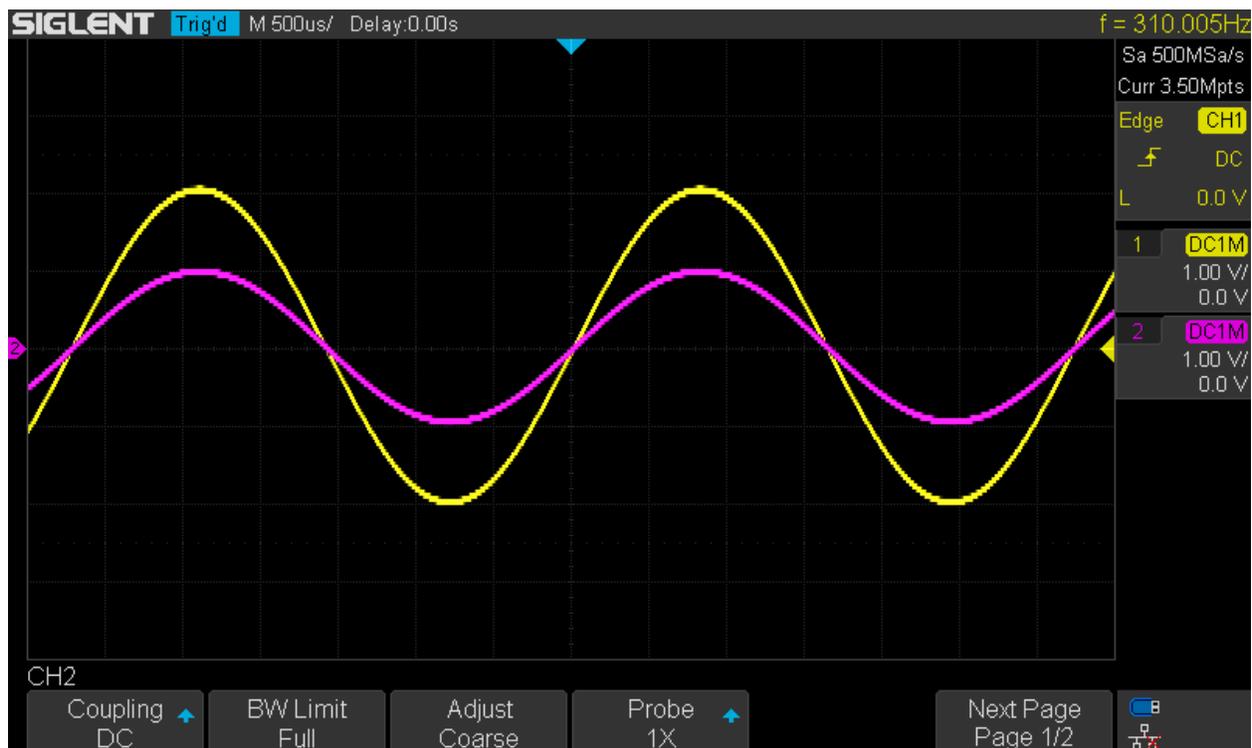


Figure 1: Wavy waves

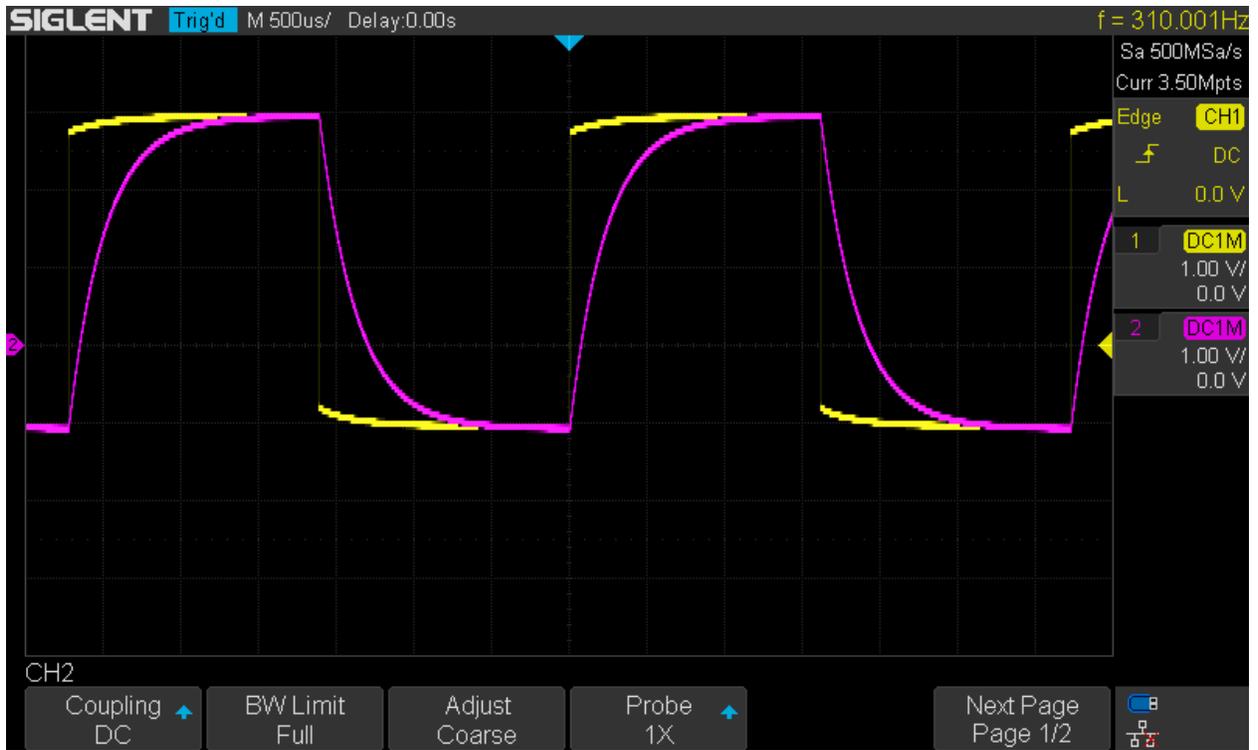


Figure 2: Funky squares

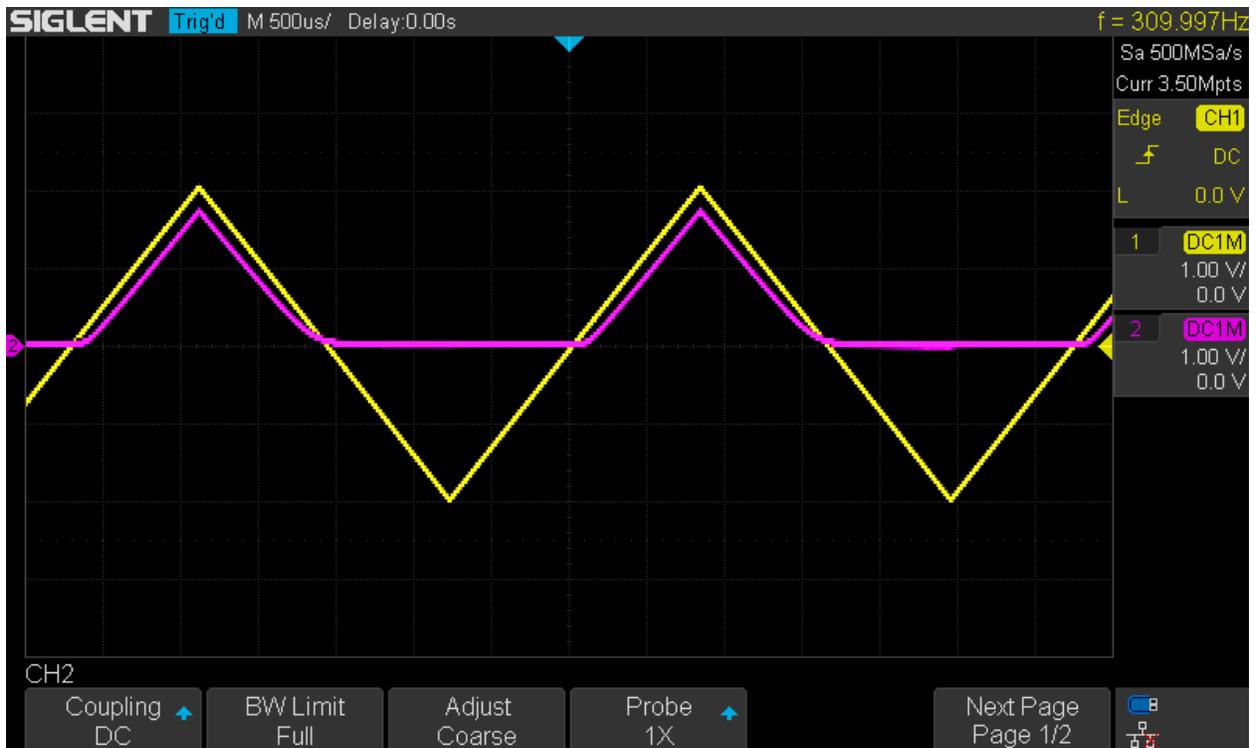


Figure 3: You shall not pass

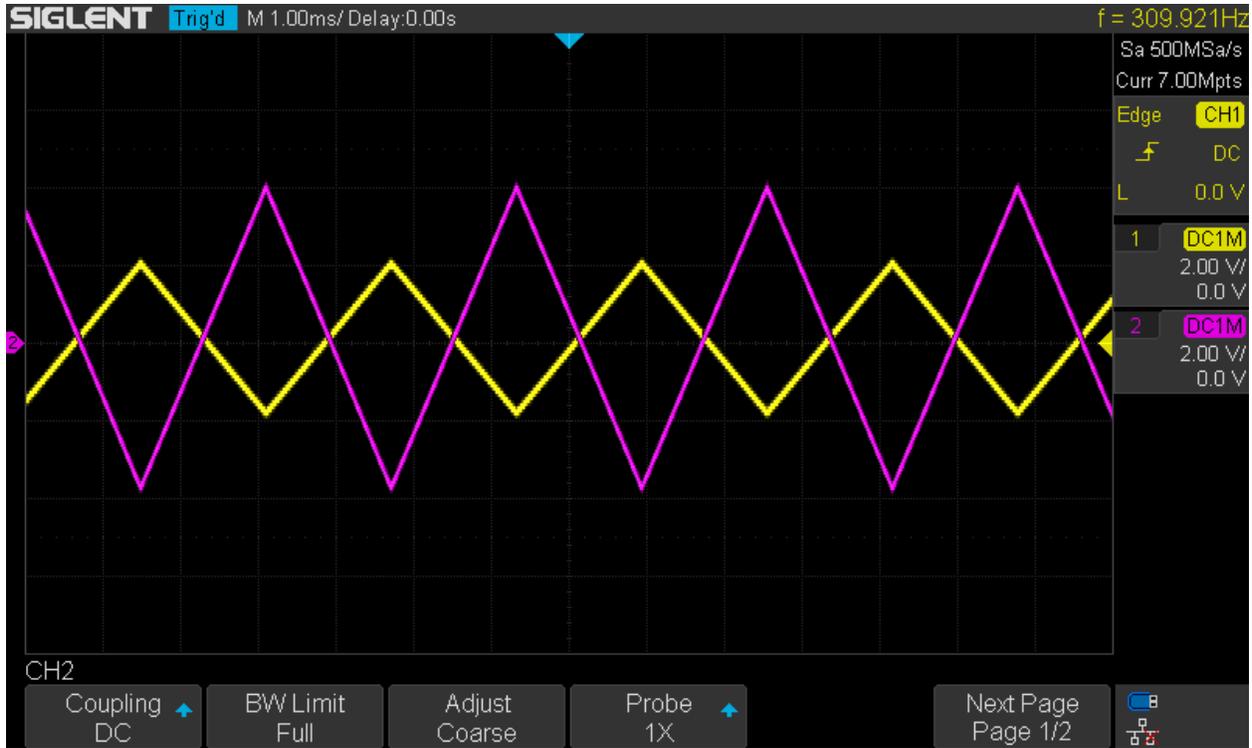


Figure 4: Very linear

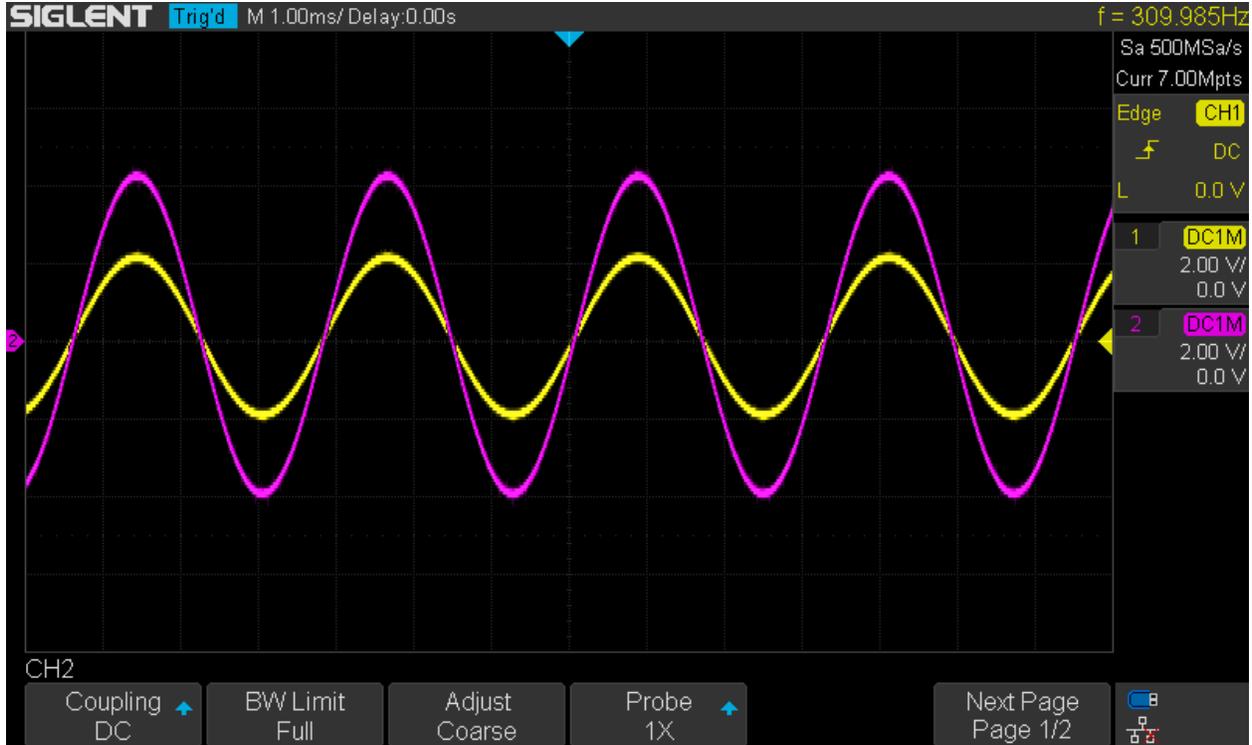


Figure 5: Why be quiet

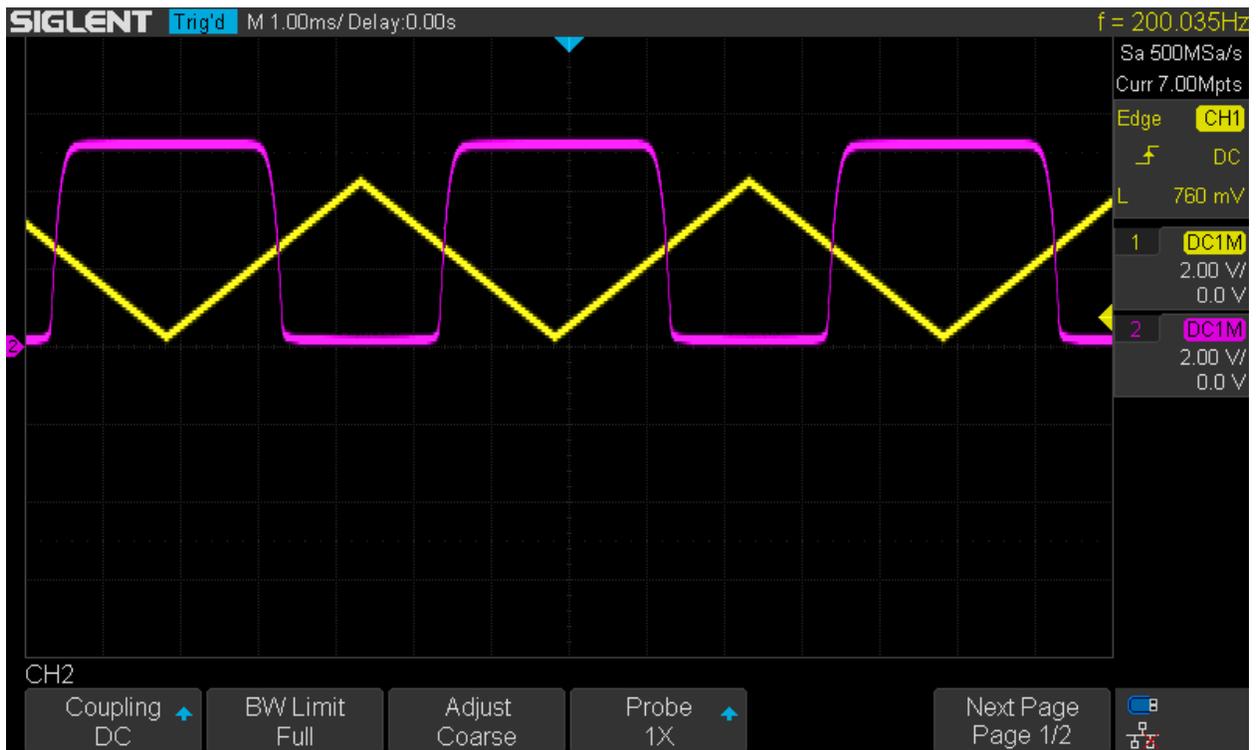


Figure 6: Atypical