Don’t Forget:
- Assume all diodes are standard Silicon type, with $V_{D0}=0.7$ V. All Zener diodes have $V_Z=5$ V
- Be sure to include units for all numerical results
- Label all relevant values on plots

Question 1
For the circuit shown, find the current $i$, for
a) $V_s=1$ V
b) $V_s=2$ V

Question 2
For the circuit shown,
  a) Write the transfer function ($V_o$ for all $V_i$)
  b) Sketch the transfer function $V_o$ vs $V_i$ on a rectangular plot

Question 3
For the circuit shown,
  a) Write the transfer function ($V_o$ for all $V_i$)
  b) Sketch the transfer function $V_o$ vs $V_i$ on a rectangular plot

Question 4
For an input signal of a 1 MHz sine wave with a 10 V magnitude, sketch the output voltage for
a) $R=10$ Ω
b) $R=1$ kΩ
c) $R=100$ kΩ