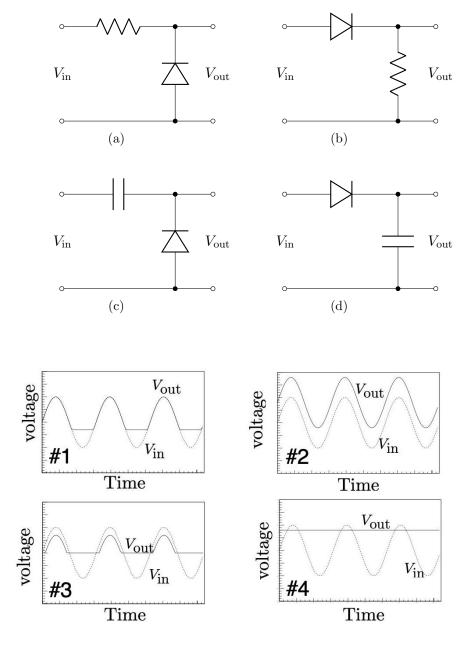
## Prelab – Experiment 7 Diode Characteristics and Circuits

## 1 Question 1

Estimate the ripple as described in Step 3 of the Experiment 7 instructions for  $R_L = 50 \,\mathrm{k}\Omega$ . Take other values from Step 2. You can use the small x approximation for  $e^x$  (since  $t << \tau$ ). See Eq. (6.7) in Sprott.

## 2 Question 2

Match circuit schematics (a)-(d) with graphs #1-4 of the waveforms for  $V_{\rm in}$  and  $V_{\rm out}$ 



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