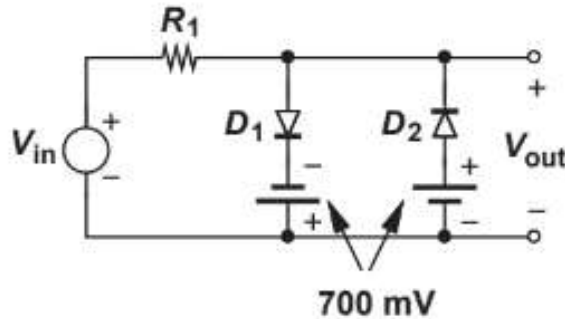


Handwritten Assignments 5

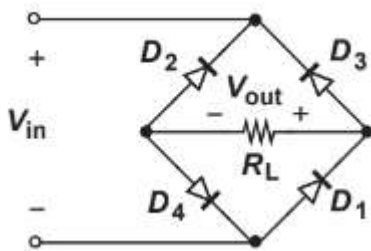
Question 1:

Find the voltage characteristics for the following circuit given that $V_{D,on} = 800 \text{ mV}$.



Question 2:

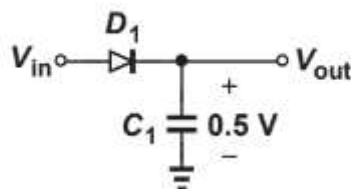
While constructing a full-wave rectifier, a student mistakenly swapped the terminals of D_3 as depicted in the following figure. Explain what happens.



Question 3:

Assuming $V_{in} = V_p \sin \omega t$, plot the output waveforms of both circuits for an initial condition of $+0.5 \text{ V}$ across C_1 . Assume $V_p = 5 \text{ V}$.

A-



B-

