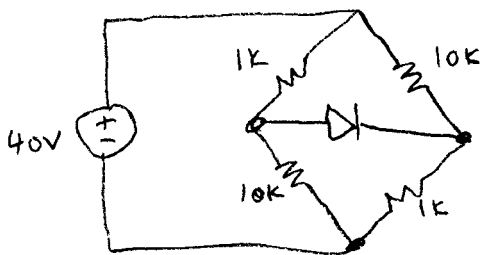
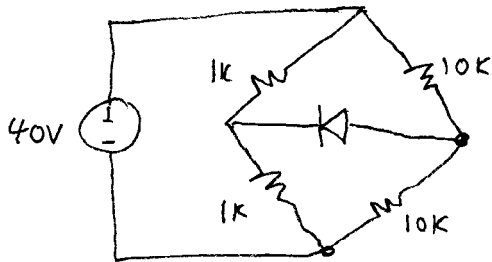
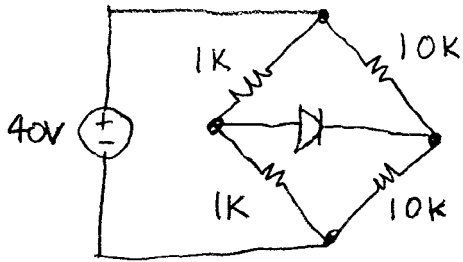
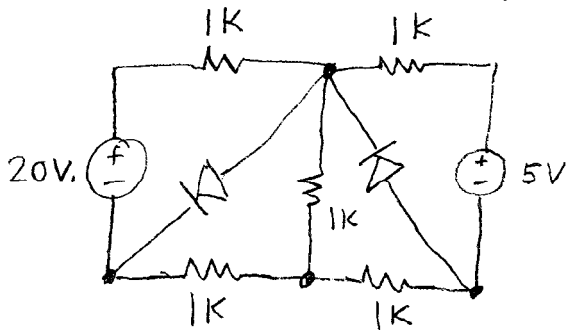


Name \_\_\_\_\_

Find node voltages  
and diode states

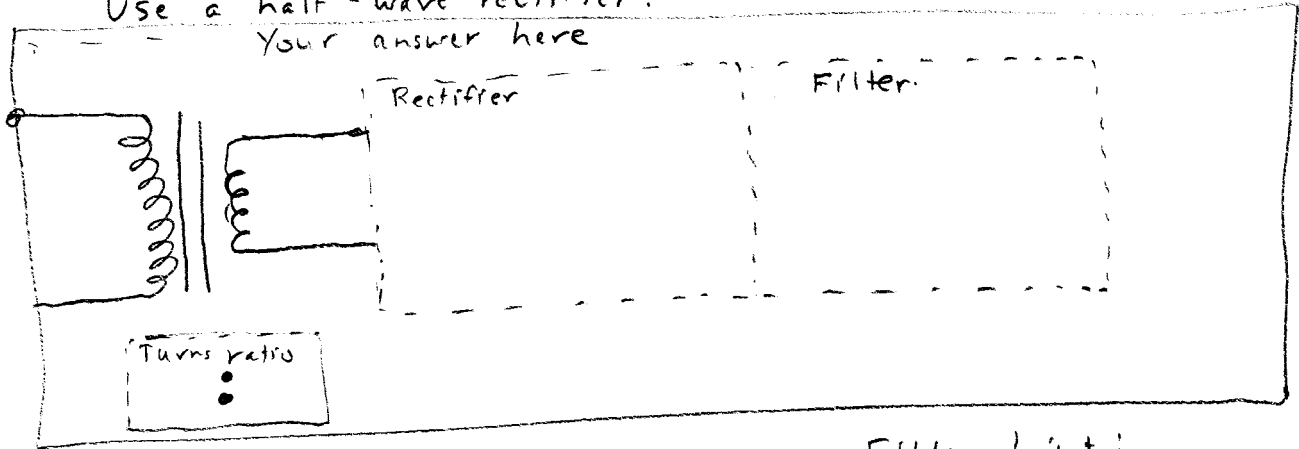


Using ideal diodes, design a power supply  
to deliver +10 volts DC at 1 Amp  
with less than 0.1 volt ripple.

The power source is 200 volts @ 400 Hz.

Use a half-wave rectifier.

Your answer here



Filter hint:

$$I = C \frac{dV}{dt}$$