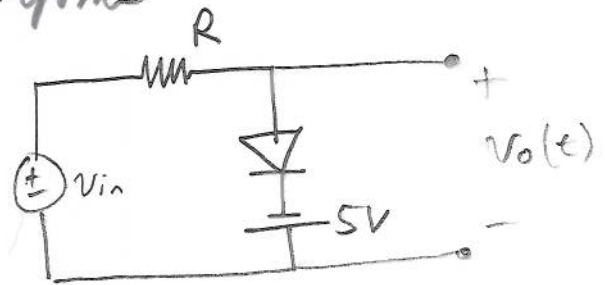
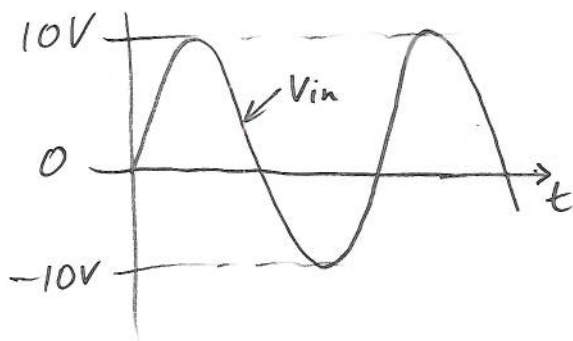


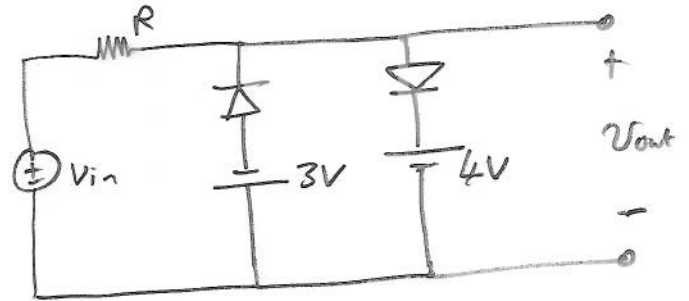
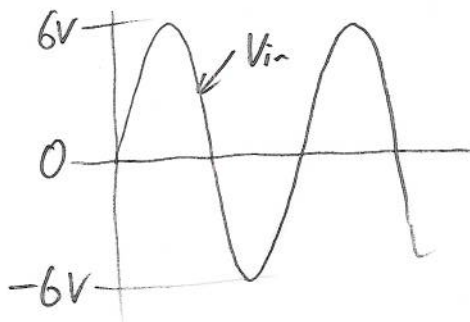
ASSUME IDEAL DIODES THROUGHOUT

① Sketch the output waveform



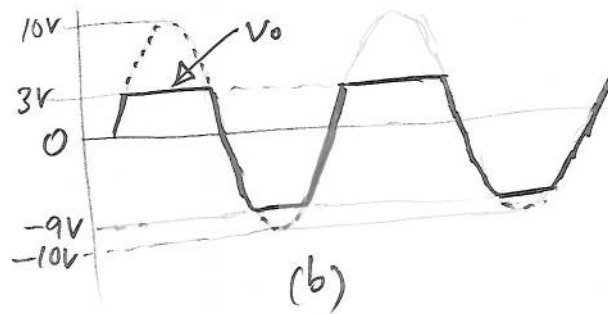
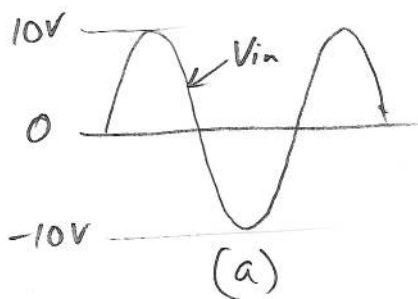
Show all calculations

② Sketch the output waveform:



Show all calculations

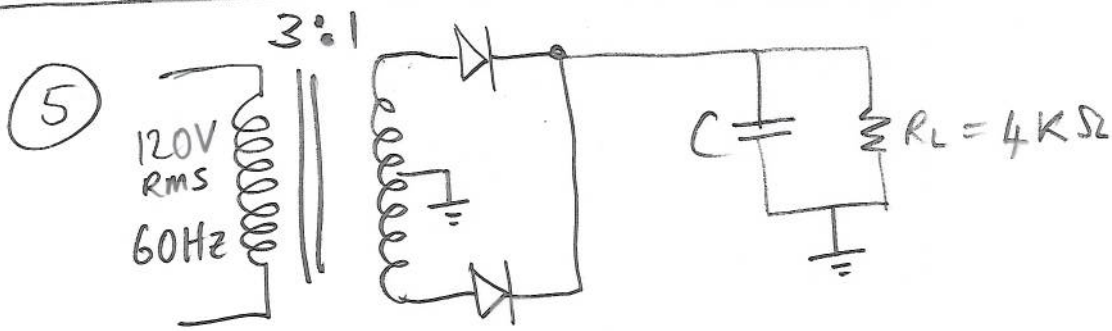
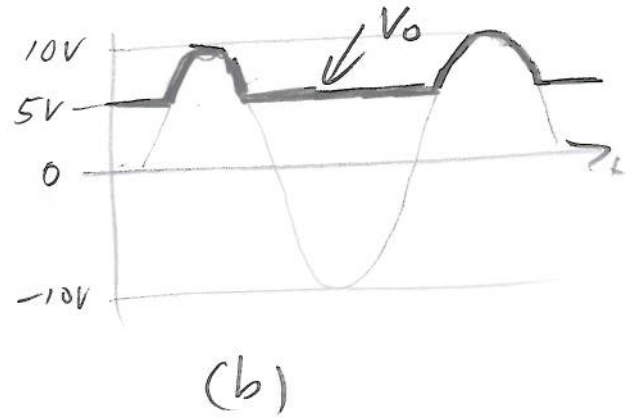
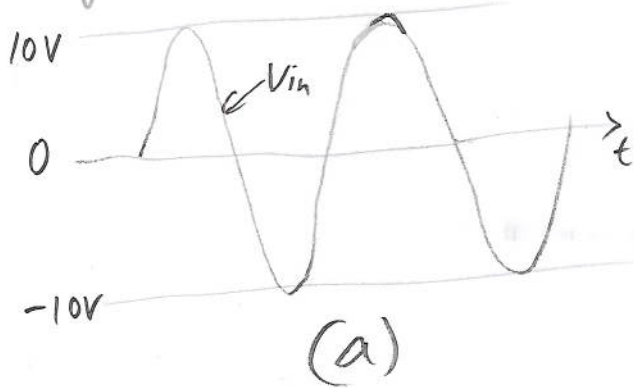
③ Design a circuit that given the input waveform shown in (a), produces the output waveform shown in (b).



Note: The answer is a circuit diagram.

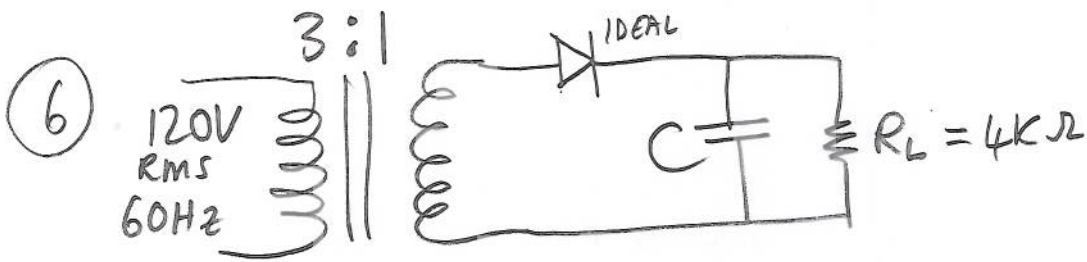
CONTINUED...

④ Design a circuit that given the input waveform of (a), produces the output waveform of (b)



- (a) What is the maximum voltage across the load resistor?
- (b) What must C be if the output voltage ripple is to be 2%?

CONTINUED ...



(a) What is the maximum output voltage across the load resistor?

(b) What must C be if the output voltage ripple is to be 2%?
