



COLLEGE OF ENGINEERING & TECHNOLOGY

Department: Electronics and Communications Engineering

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TAs: Eng. Amr El-Wakeel, Eng. Sherry Heshmat.

Course Title: Electronic Devices I

Course Code: EC 233

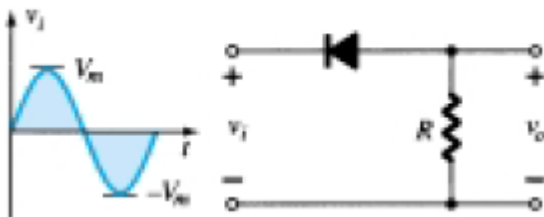
Cairo Branch

Sheet 6

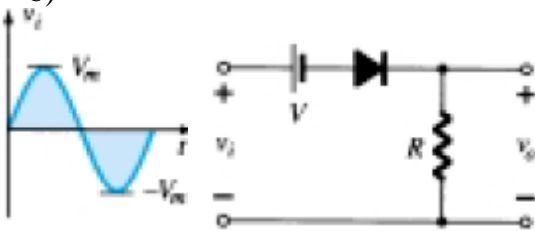
Question one: (Series Clippers)

Determine the output voltage for the shown networks

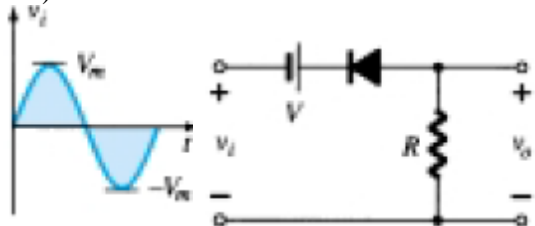
a)



b)



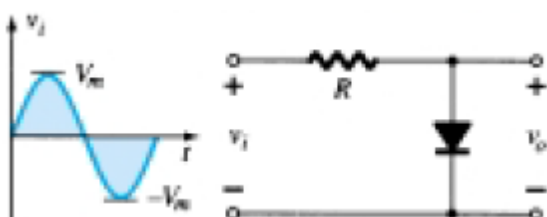
c)



Question two: (Parallel Clippers)

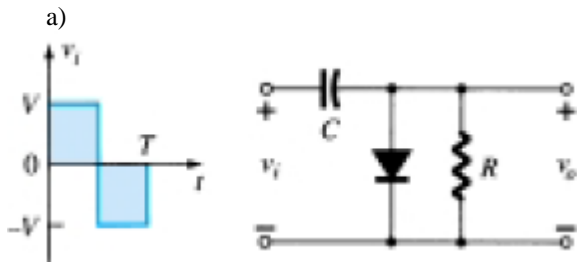
Determine the output voltage for the shown networks

a)



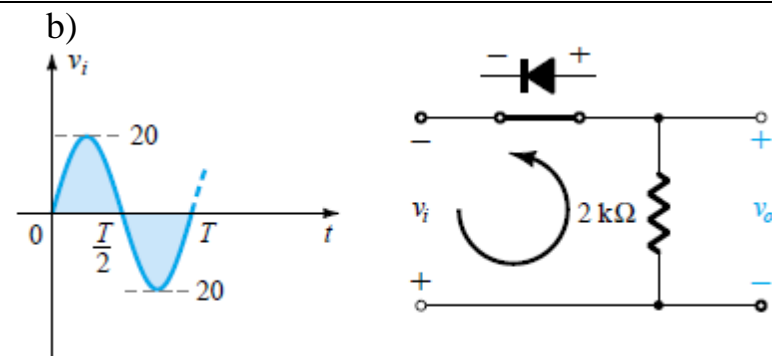
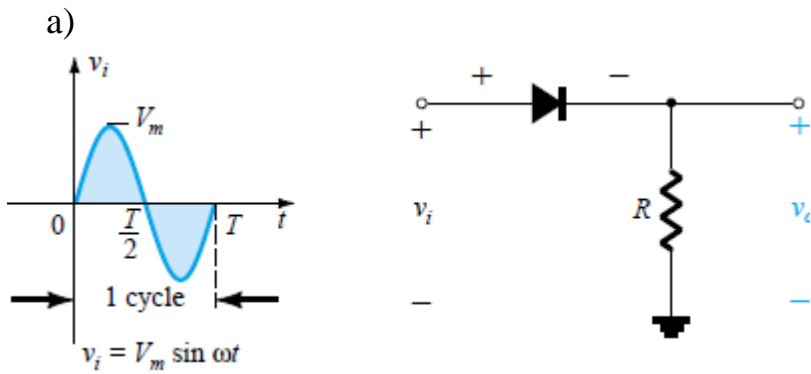
Question Three: Clampers

Determine the output voltage for the shown networks



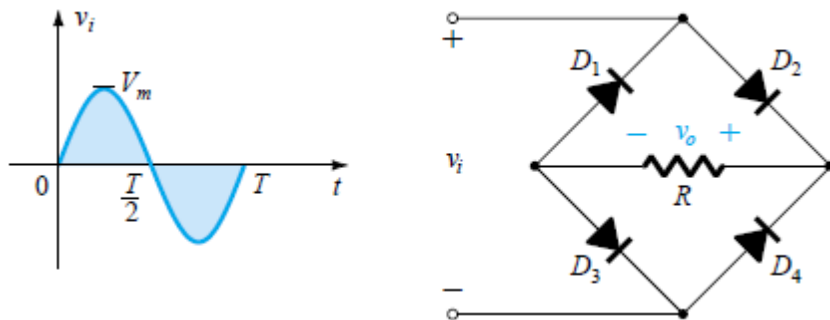
Question four: Half wave rectifier

Determine the output voltage for the shown networks

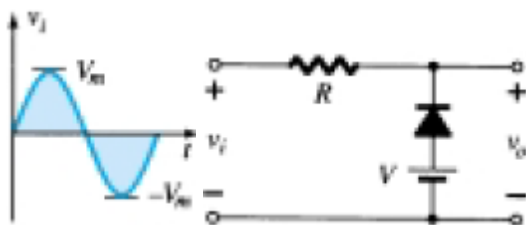
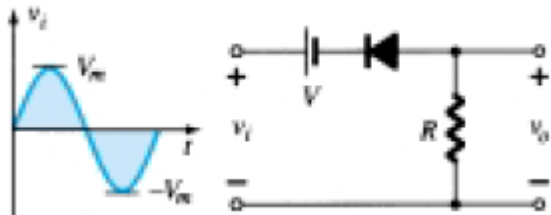
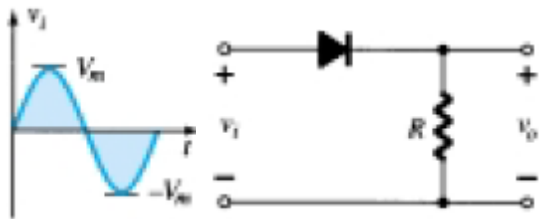


Question five : Full wave rectifier

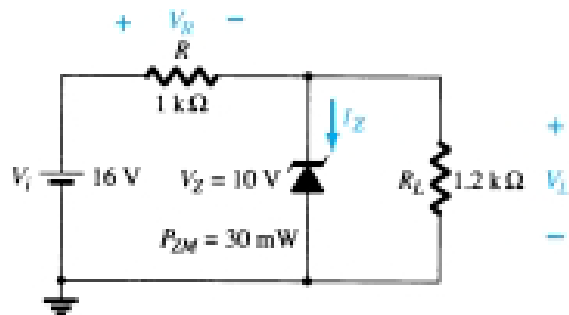
Determine the output voltage for the shown networks



Assignment problems: Determine the V_o of each circuit and sketch it.



For the Zener diode network shown in the circuit determine V_L , V_R , I_Z , and P_Z



Good Luck ☺