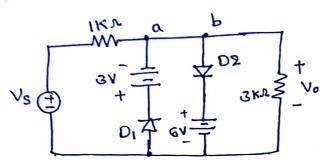
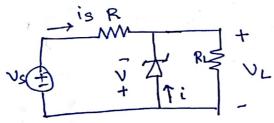
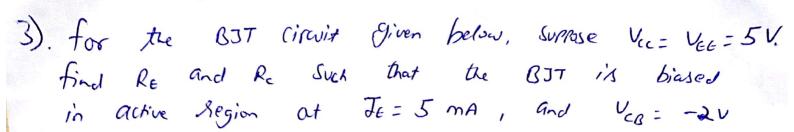
a.1) The input voltage to the Clipper Circuit shown in the below figure is $V_S = 12 \sin \omega t V$. Determine the output voltage and sketch this function.

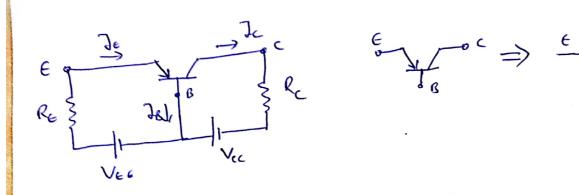


(a). Find the range of the load resistance Re thown in the below

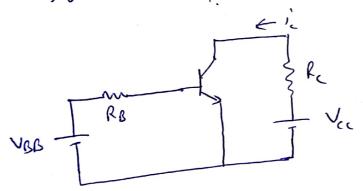
- (a). Find the range of the load resistance RL that result in a qv load voltage when $V_3 = 24 V$.
- (b) Find the range of the Supply voltage vs that results in a qv load voltage when RL=6001.







4) for the Circuit Given below, $R_B = 270 \text{ kp}$, $R_C = 1.5 \text{ kp}$, $V_{BB} = V_{CC} = 6V$, R = 120. (Assume active region). Will the BJT Consinue to Operate in active segion, if R_C is Changed to 3 kp?



5) In the Previous question (4), of a resistance

of 500 R is Ploced in Series Win emitter,

find ig, ic, Vcc. (Assuming active Segion).

Will the BJT Continue to Operate in active Legin

if Re is changed to 3 km

Re (500x) T Vcc