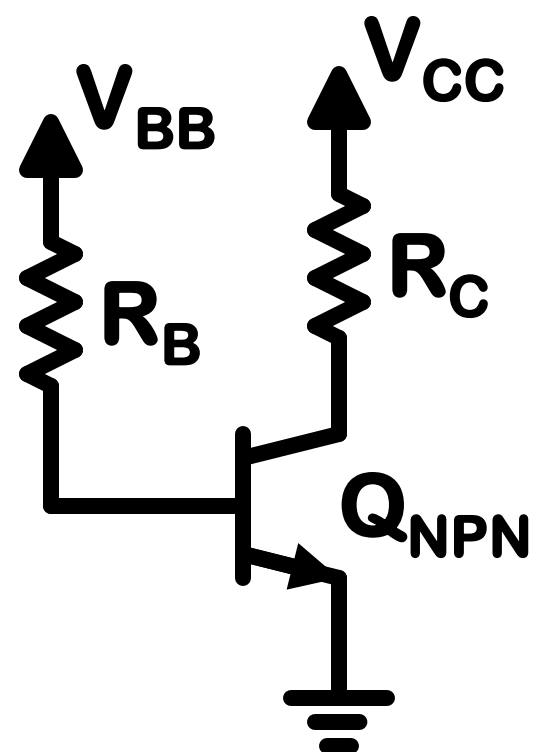
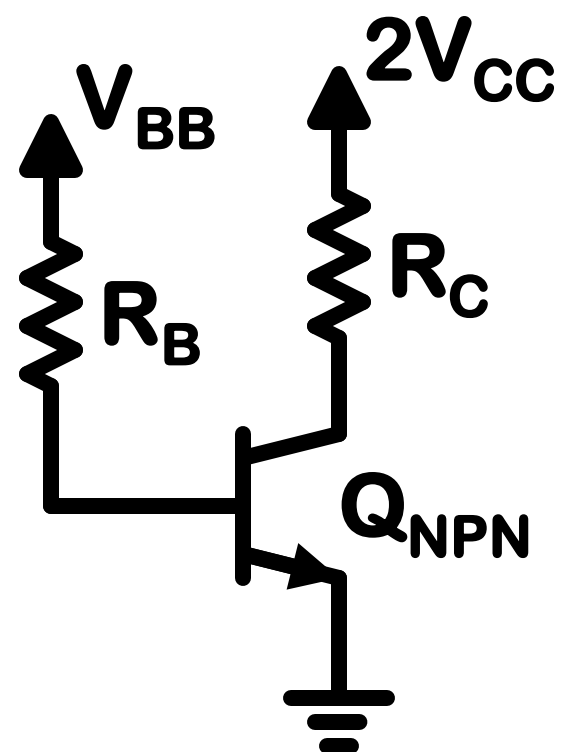
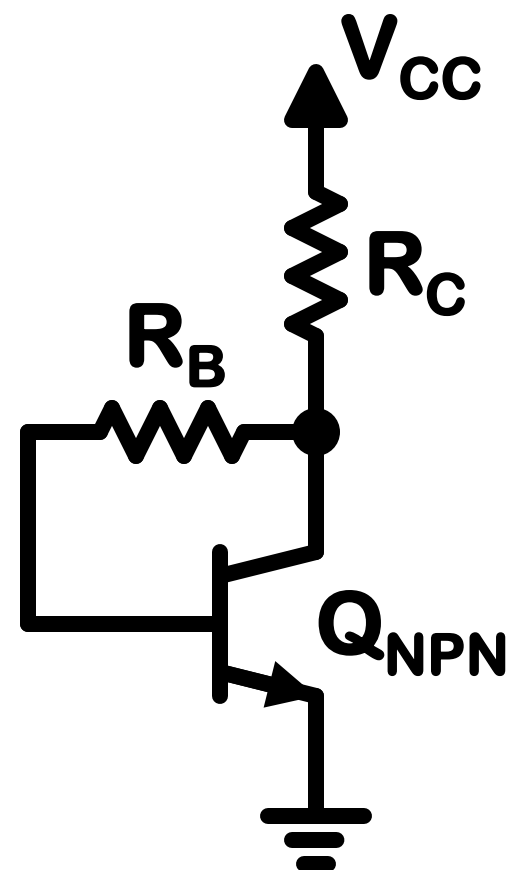




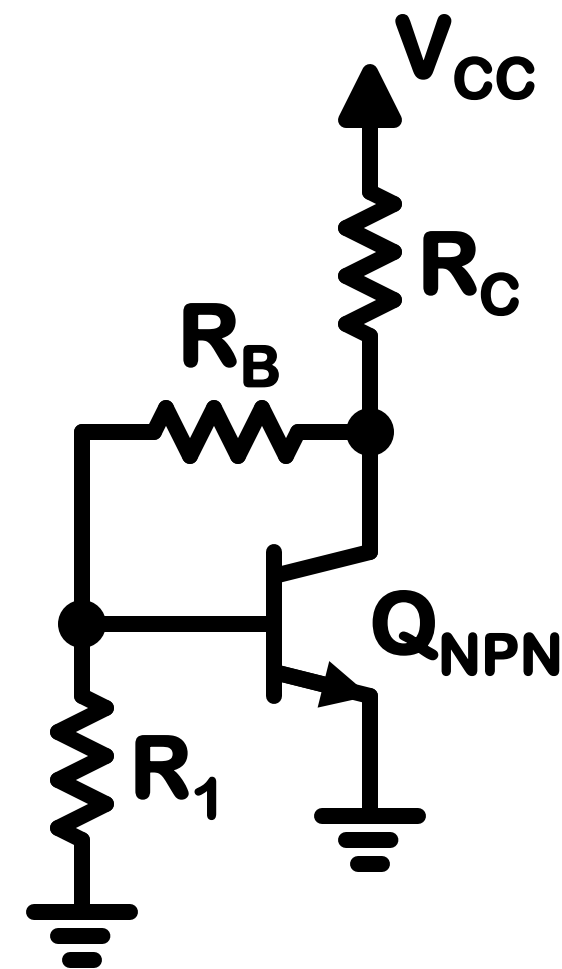
**A: Saturation**



**B: Active**



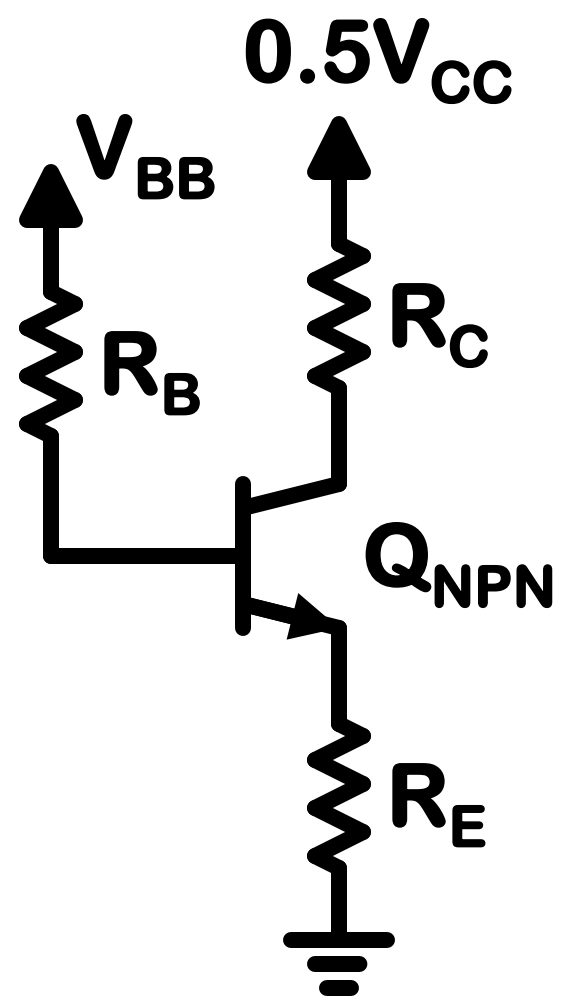
**C: Active**



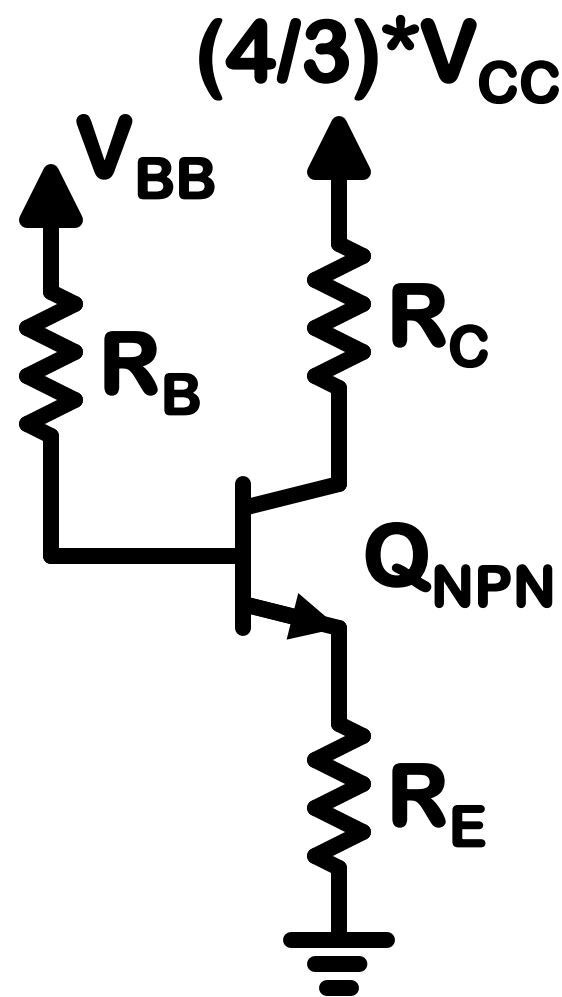
**D: Active**

$V_{CC} = 6V$   
 $V_{BB} = 4V$   
 $R_B = 10k\Omega$   
 $R_C = 500\Omega$   
 $R_E = 200\Omega$   
 $R_1 = 10k\Omega$   
 $\beta = 50$

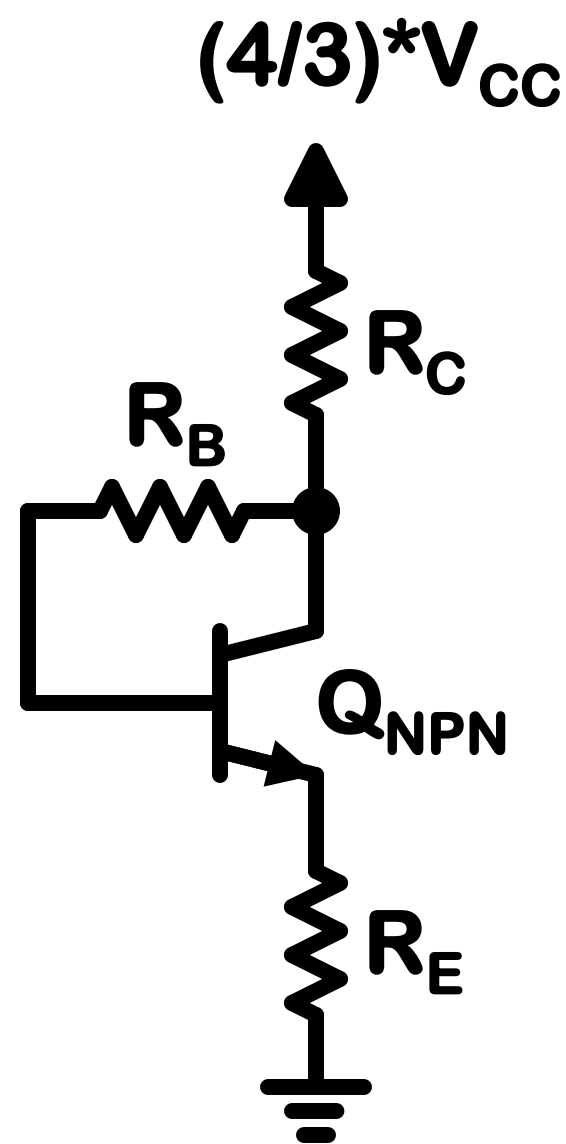
- Find the collector current,  $i_C$ , for each device.
- Verify the mode which is given for each circuit.
- Draw PNP equivalent.



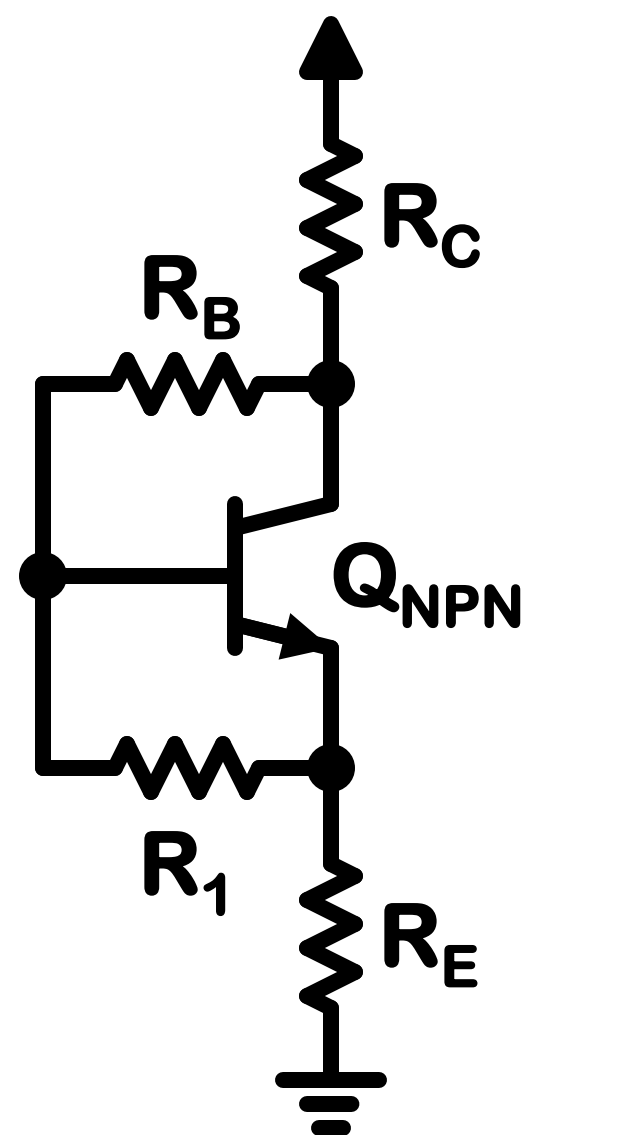
**E: Saturation**



**F: Active**



**G: Active**



**H: Active**