

LAB END EXAM

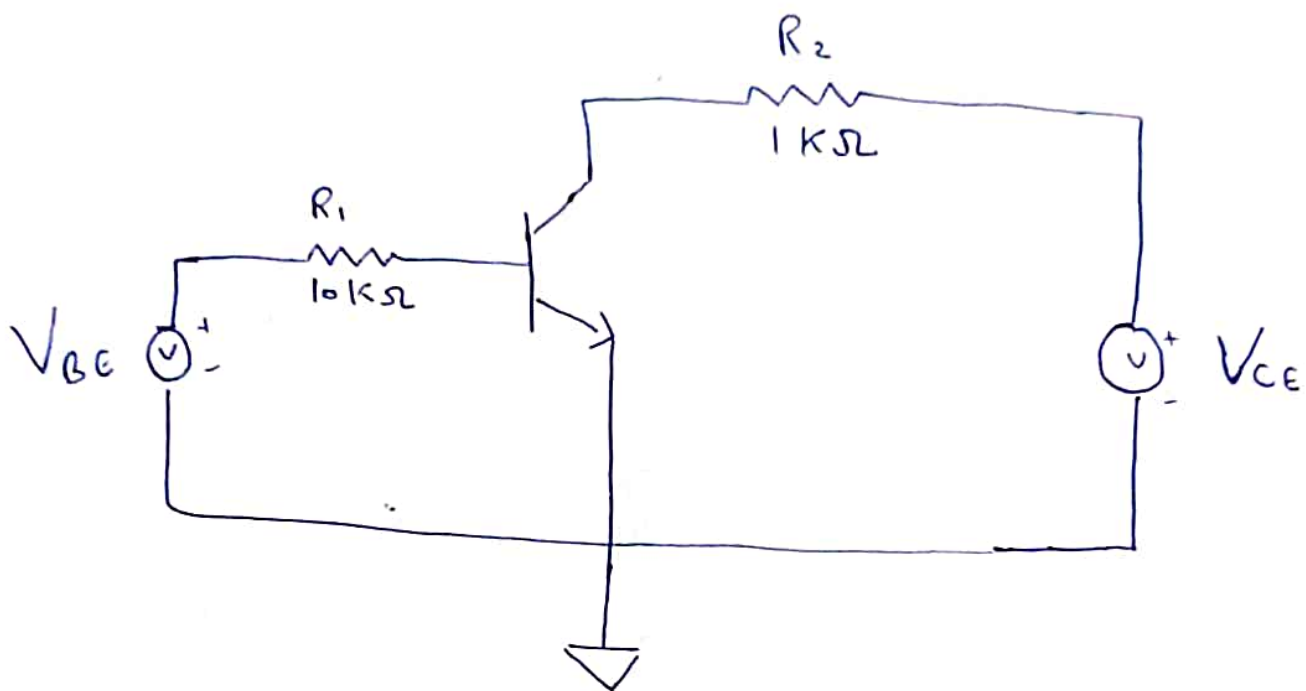
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Paper Code - 2

AIM: To draw the Input and Output Transistor waveform for BC547A Transistor.

Software Required :- LT Spice

Circuit Diagram



Conclusion

To obtain output resistor

Observation

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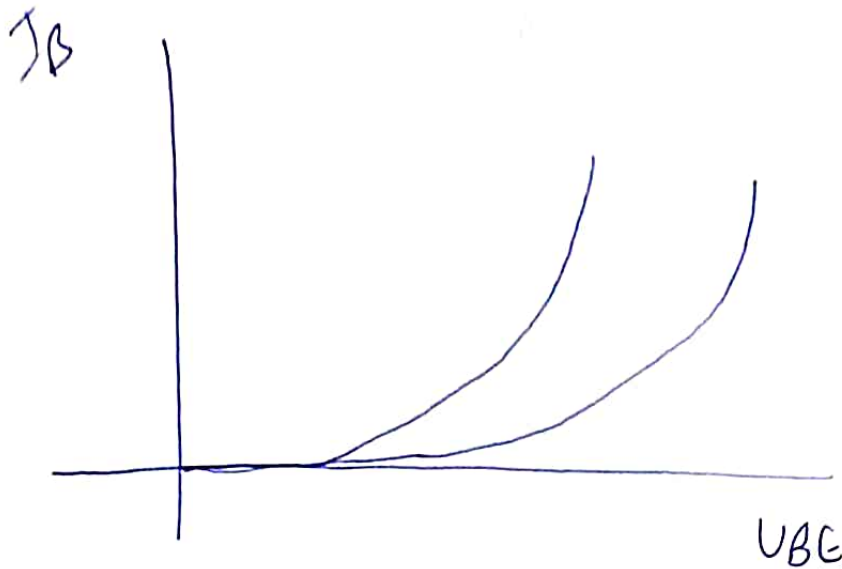
① When V_{CE} is at constant 2V

V_{BE}	I_B (mA)	V_{CE}
0.2		
0.4		
0.6		
0.8		

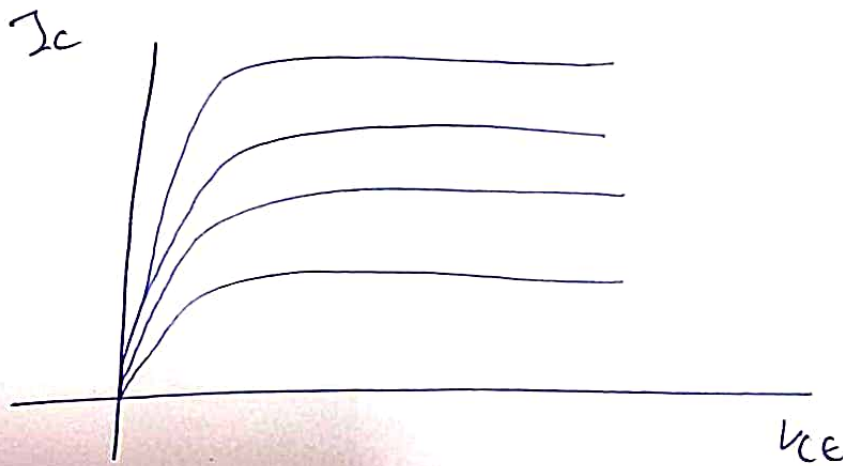
② When I_B is at 10 mA

V_{CE}	I_C (mA)	V_{CE}
1	0.32	1.06
2	0.6	2.08
3	0.64	1.17
4	0.65	2.17
5	0.66	3.17
6	0.67	4.17

Graph



I_B vs V_{BE} graph at constant V_{CE}



I_C vs V_{CE} at constant I_B

Conclusion

To obtain resistance find I_C and V_{CE}
for a constant I_B .