

BJT- CB INPUT CHARACTERISTICS

INSTRUCTION

EXPERIMENTAL TABLE

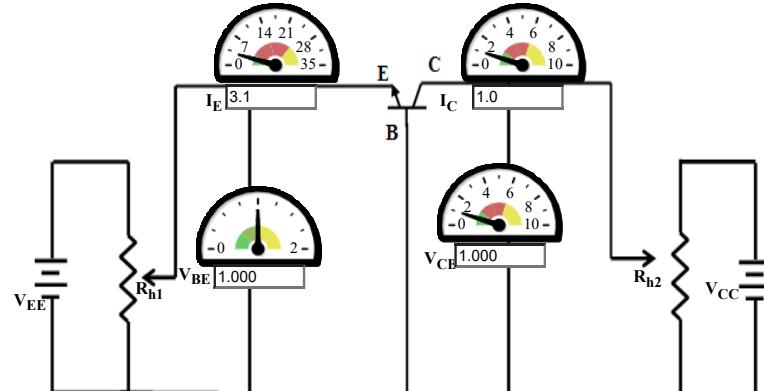
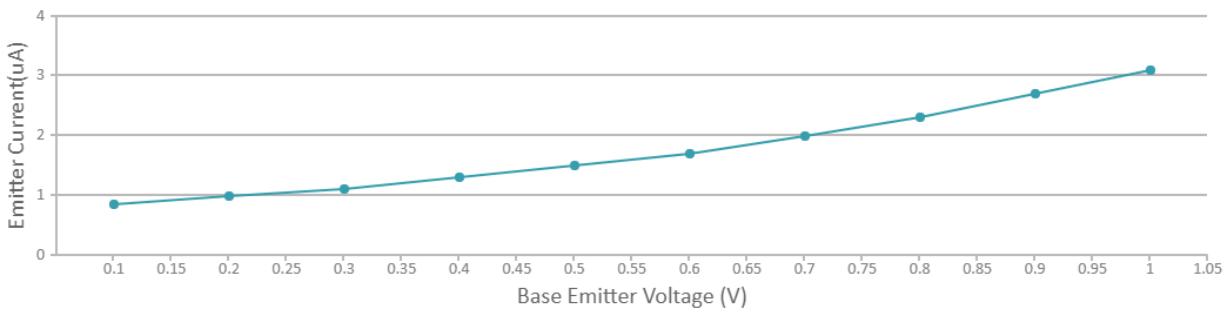
Serial No.	Base-Collector Voltage 1.000 V	
	Base-Emitter Voltage V	Emitter Current mA
1	0.1000	0.85
2	0.2000	0.98
3	0.3000	1.1
4	0.4000	1.3
5	0.5000	1.5
6	0.6000	1.7
7	0.7000	2.0
8	0.8000	2.3
9	0.9000	2.7
10	1.000	3.1

CONTROLS

Ohms 50
 Ohms 10

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Take another sets of Base-Emitter Voltage and Emitter current readings for another Base-Collector value

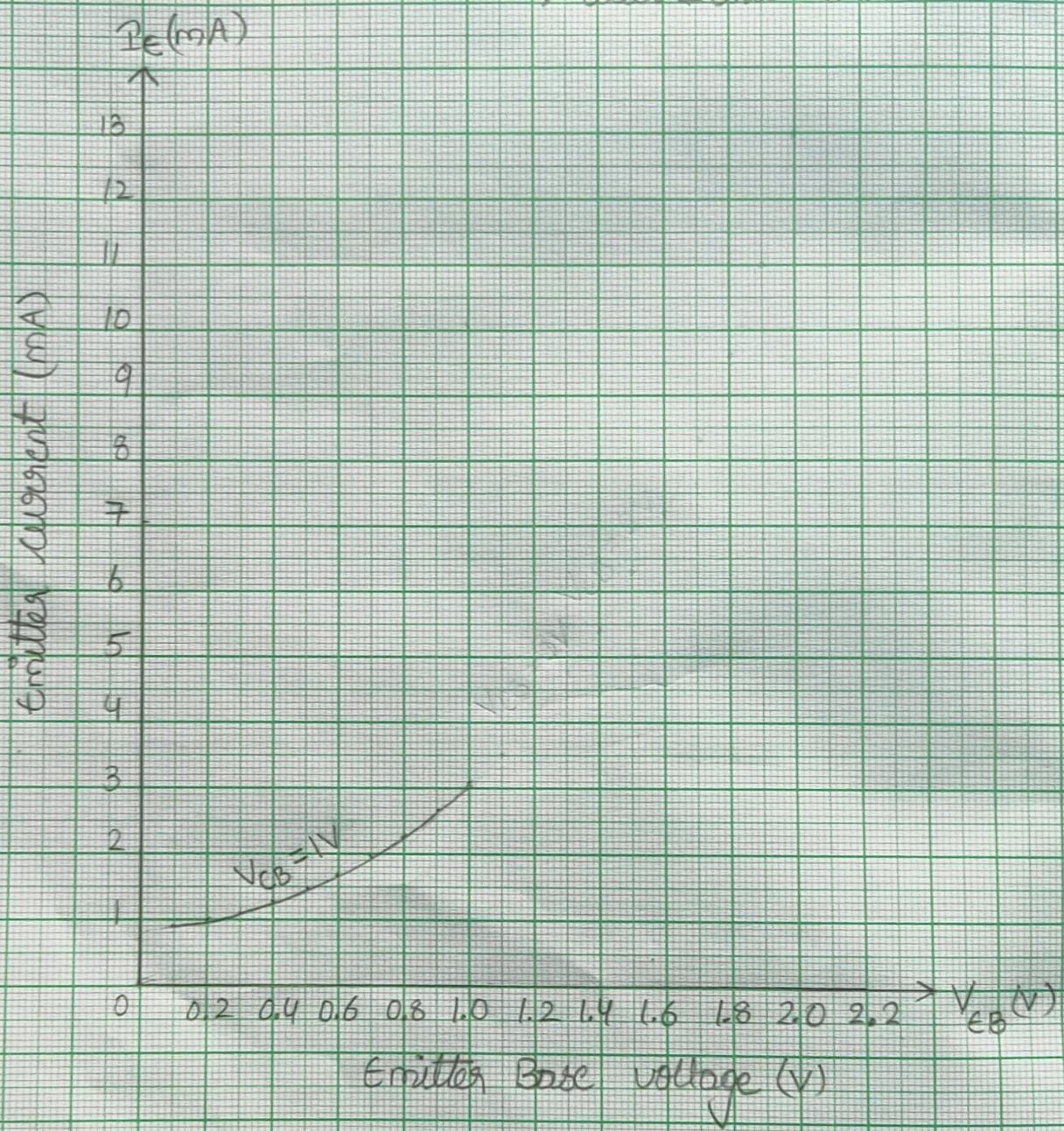

GRAPH PLOT
V-I Plot


Input characteristics of Common Base BJT

Scale:-

X-axis: 1 unit = 0.2V

Y-axis: 1 Unit = 1mA



BJT- CB INPUT CHARACTERISTICS

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EXPERIMENTAL TABLE

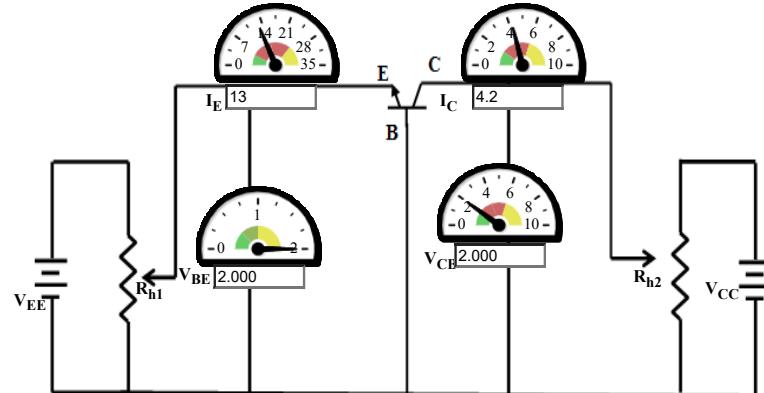
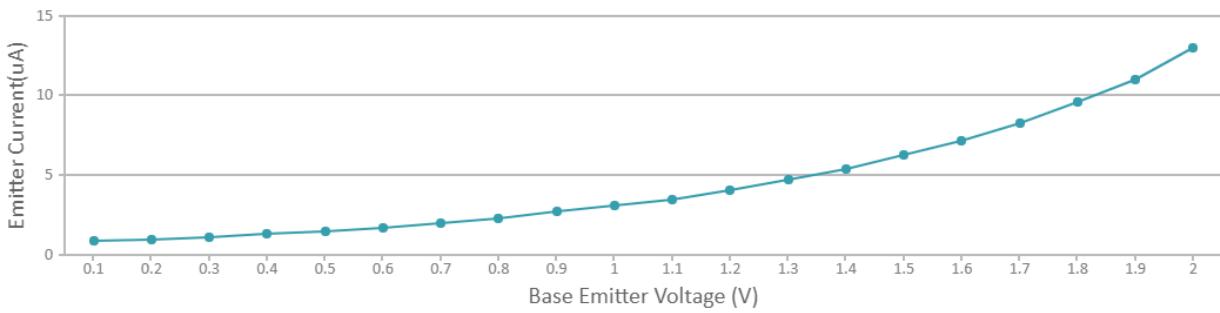
Serial No.	Base-Collector Voltage	
	2.000 V	Emitter Current mA
1	0.1000	0.85
2	0.2000	0.98
3	0.3000	1.1
4	0.4000	1.3
5	0.5000	1.5
6	0.6000	1.7
7	0.7000	2.0
8	0.8000	2.3
9	0.9000	2.7
10	1.000	3.1
11	1.100	3.5
12	1.200	4.1
13	1.300	4.7
14	1.400	5.4

CONTROLS

R_{h1} Ohms 100
 R_{h2} Ohms 20

[Print It](#)

Take another sets of Base-Emitter Voltage and Emitter current readings for another Base-Collector value

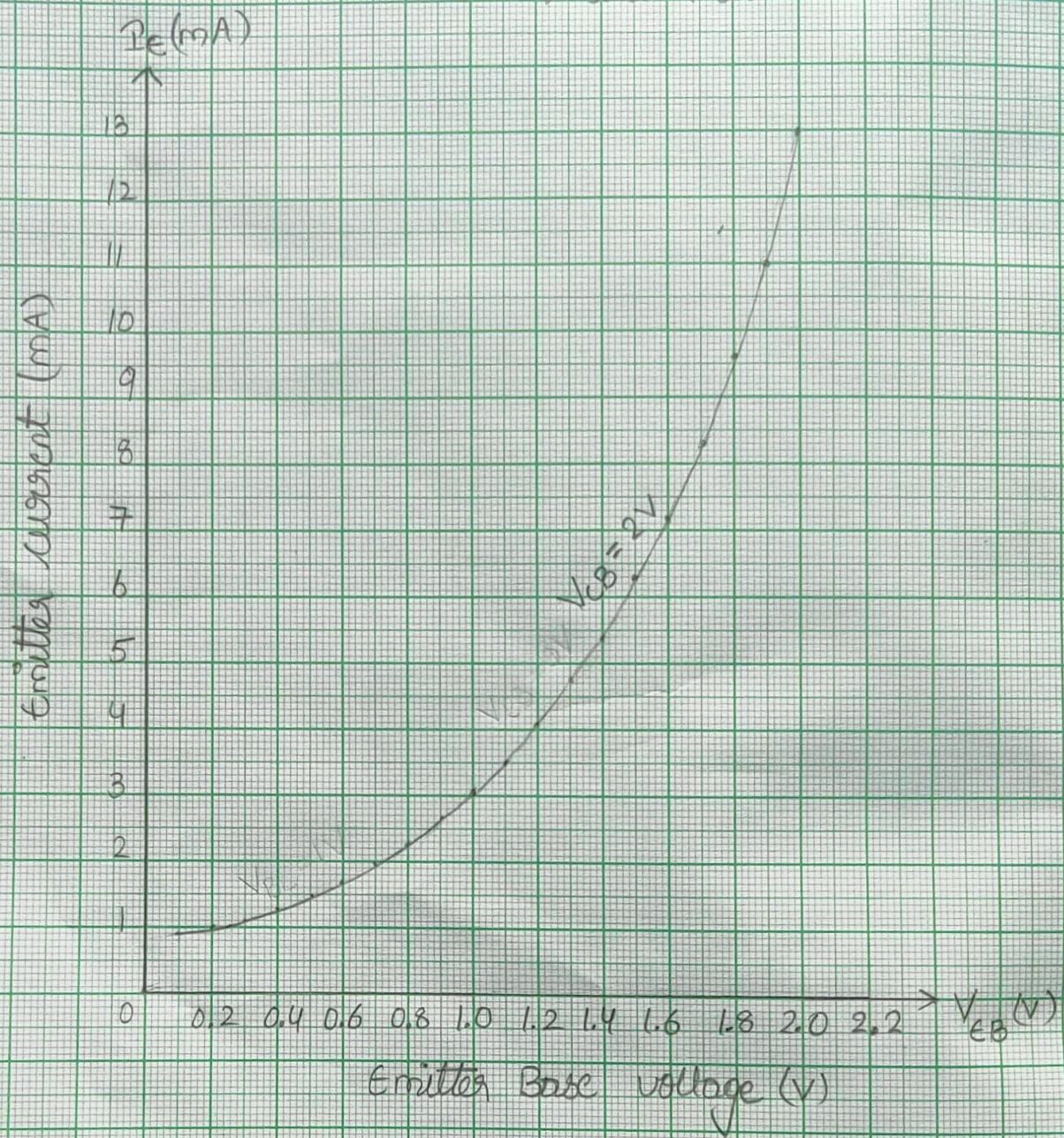

GRAPH PLOT
V-I Plot


Input characteristics of
Common Base BJT

Scale :-

X-axis: 1 unit = 0.2 V

Y-axis: 1 unit = 1 mA



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EXPERIMENTAL TABLE

Serial No.	Base-Collector Voltage 3.000 V	
	Base-Emitter Voltage V	Emitter Current mA
1	0.1000	0.85
2	0.2000	0.98
3	0.3000	1.1
4	0.4000	1.3
5	0.5000	1.5
6	0.6000	1.7
7	0.7000	2.0
8	0.8000	2.3
9	0.9000	2.7
10	1.000	3.1
11	1.100	3.5
12	1.200	4.1
13	1.300	4.7
14	1.400	5.4

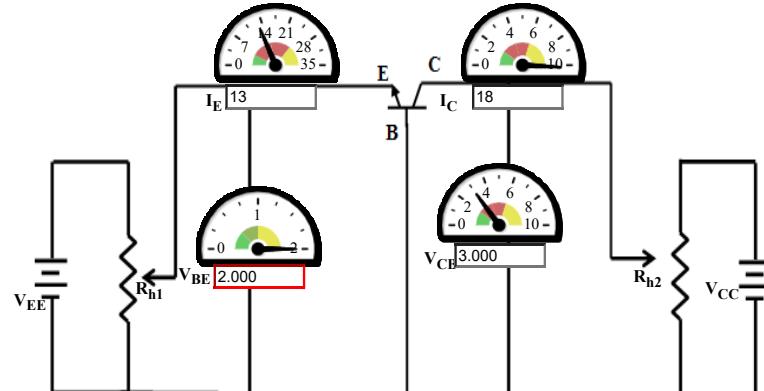
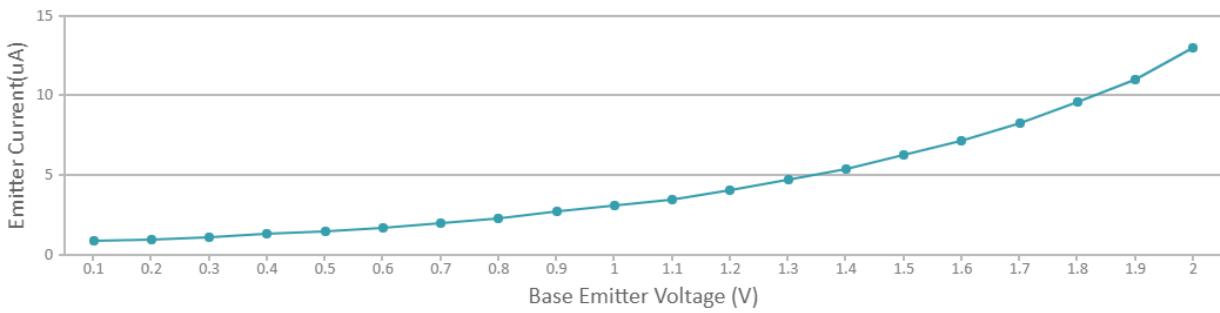
CONTROLS

Ohms
 Ohms

Change the Base-Emitter Voltage

Print It

Take another sets of Base-Emitter Voltage and Emitter current readings for another Base-Collector value

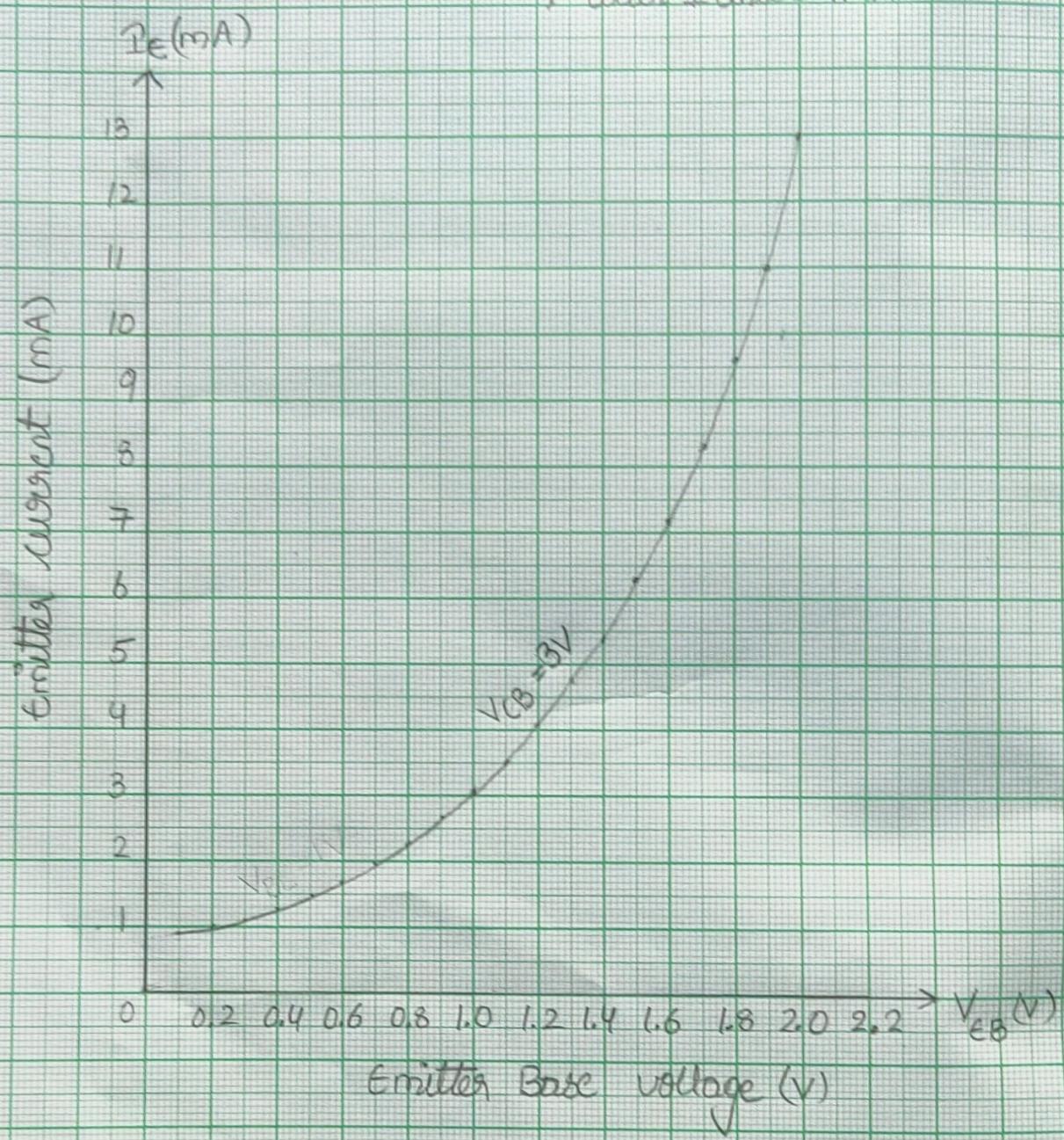

GRAPH PLOT
V-I Plot


Input characteristics of Common Base BJT

Scale :-

X-axis: 1 unit = 0.2V

Y-axis: 1 unit = 1mA



BJT- CB INPUT CHARACTERISTICS

INSTRUCTION

EXPERIMENTAL TABLE

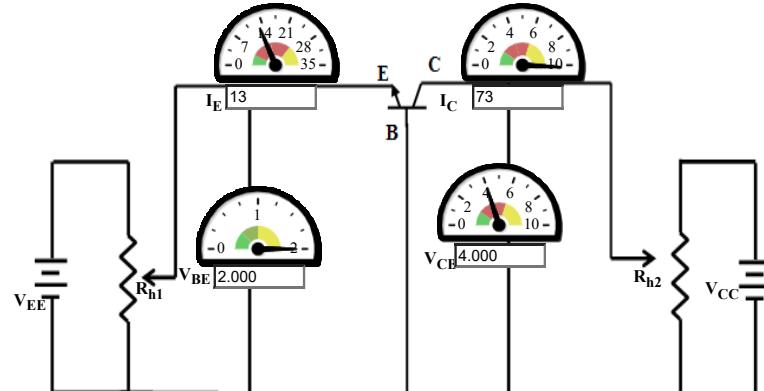
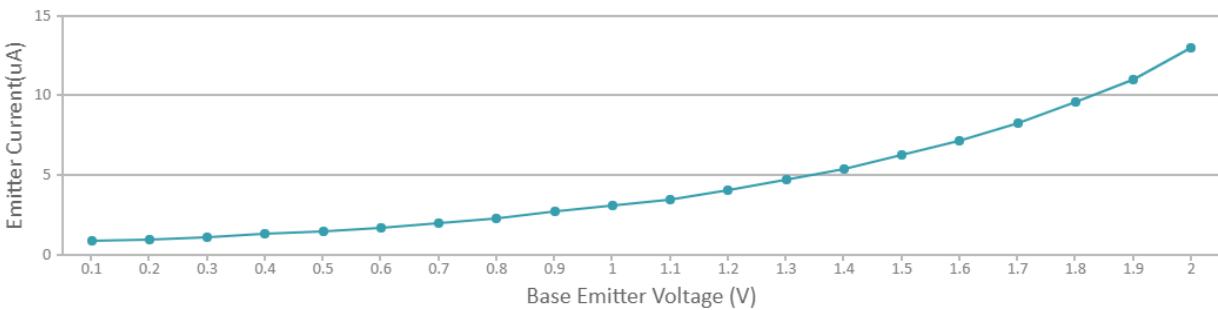
Serial No.	Base-Collector Voltage	
	4.000 V	Emitter Current mA
1	0.1000	0.85
2	0.2000	0.98
3	0.3000	1.1
4	0.4000	1.3
5	0.5000	1.5
6	0.6000	1.7
7	0.7000	2.0
8	0.8000	2.3
9	0.9000	2.7
10	1.000	3.1
11	1.100	3.5
12	1.200	4.1
13	1.300	4.7
14	1.400	5.4

CONTROLS

Ohms
 Ohms

[Print It](#)

Take another sets of Base-Emitter Voltage and Emitter current readings for another Base-Collector value

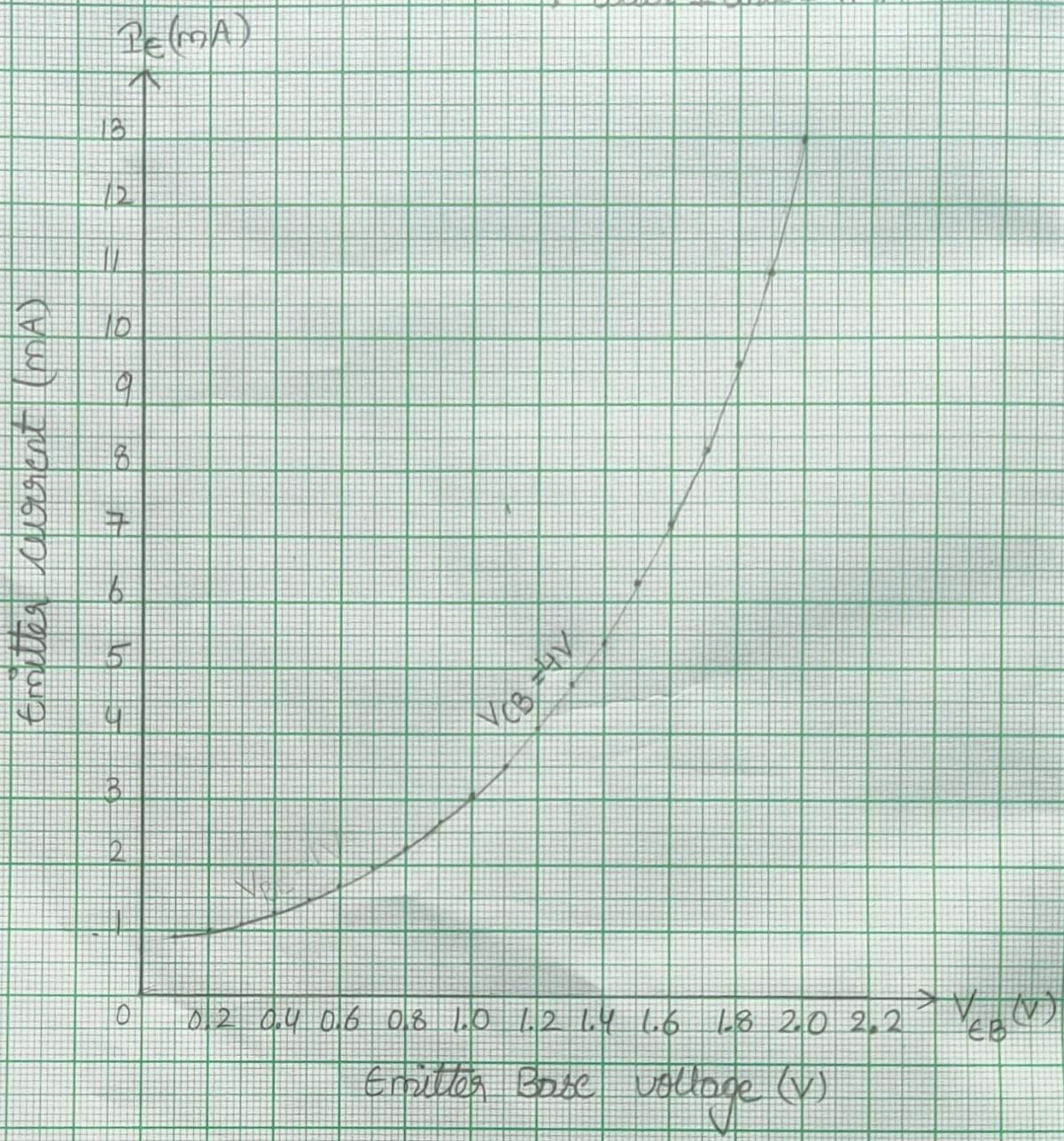

GRAPH PLOT
V-I Plot


Input characteristics of Common Base BJT

Scale:-

X-axis: 1 unit = 0.2 V

Y-axis: 1 unit = 1 mA



BJT- CB -OUTPUT CHARACTERISTICS

INSTRUCTION

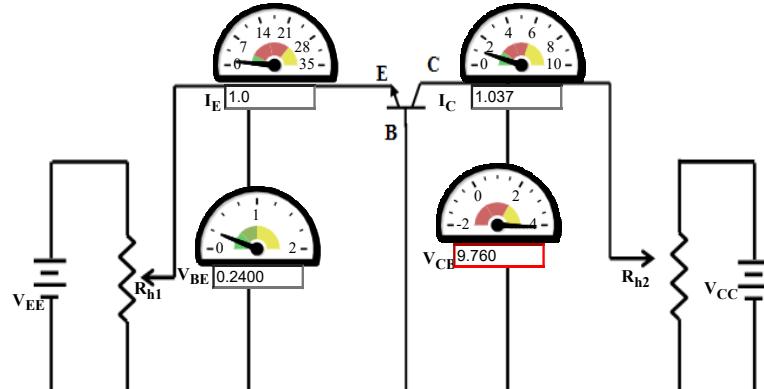
EXPERIMENTAL TABLE		
Serial No.	Emitter Current 1.0 mA	
	Base-Collector Voltage V	Collector Current mA
1	0.06000	0.06212
2	1.060	0.8144
3	2.060	1.003
4	3.060	1.032
5	4.060	1.036
6	5.060	1.037
7	6.060	1.037
8	7.060	1.037
9	8.060	1.037
10	9.060	1.037
11	9.760	1.037

CONTROLS

Ohms
 Ohms

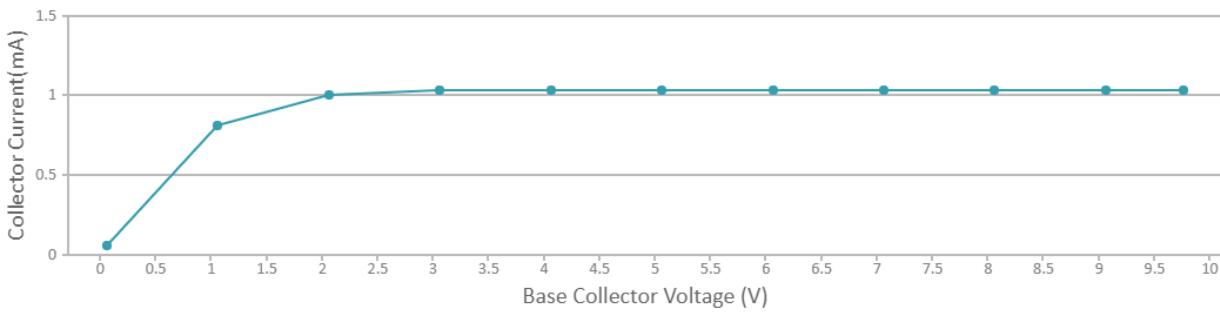
[Print It](#)

Take another sets of Base-Collector and Collector Current readings for another Emitter Current



GRAPH PLOT

V-I Plot



BJT- CB -OUTPUT CHARACTERISTICS

INSTRUCTION

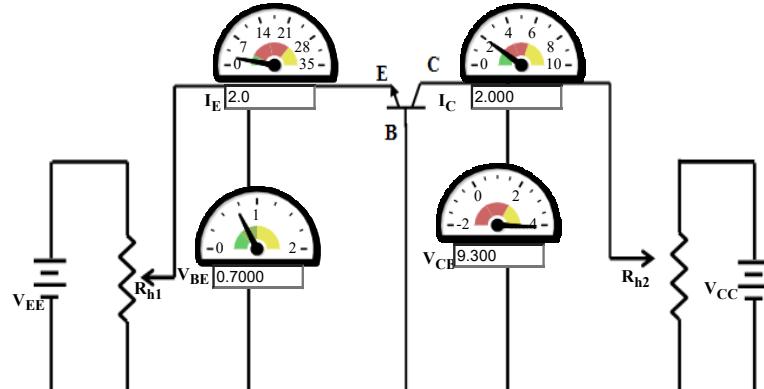
EXPERIMENTAL TABLE		
Serial No.	Emitter Current 2.0 mA	
	Base-Collector Voltage V	Collector Current mA
1	0.000	0.000
2	1.000	1.523
3	2.000	1.928
4	3.000	1.990
5	4.000	1.999
6	5.000	2.000
7	6.000	2.000
8	7.000	2.000
9	8.000	2.000
10	9.000	2.000
11	9.300	2.000

CONTROLS

Ohms 35
 Ohms 100

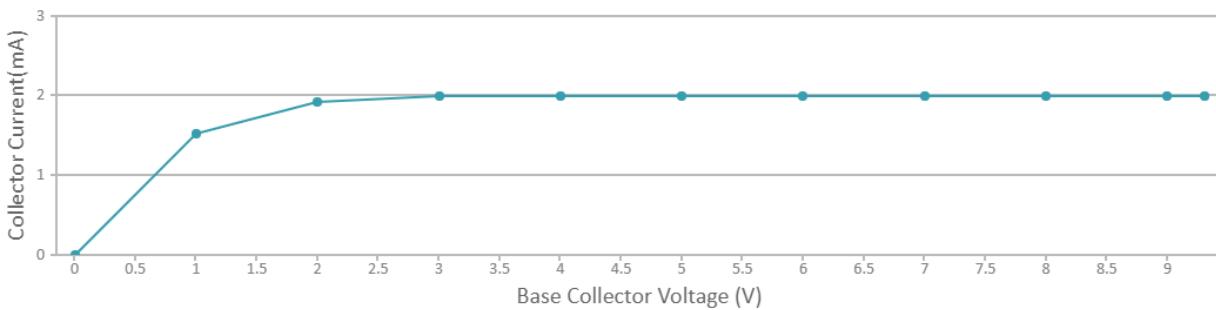
[Print It](#)

Take another sets of Base-Collector and Collector Current readings for another Emitter Current



GRAPH PLOT

V-I Plot



Output characteristics of
Common Base BJT

Scale :-

X-axis:- 1 unit = 1 V

Y-axis:- 1 unit = 0.2 mA

