

IB Physics HL Notes

Electricity

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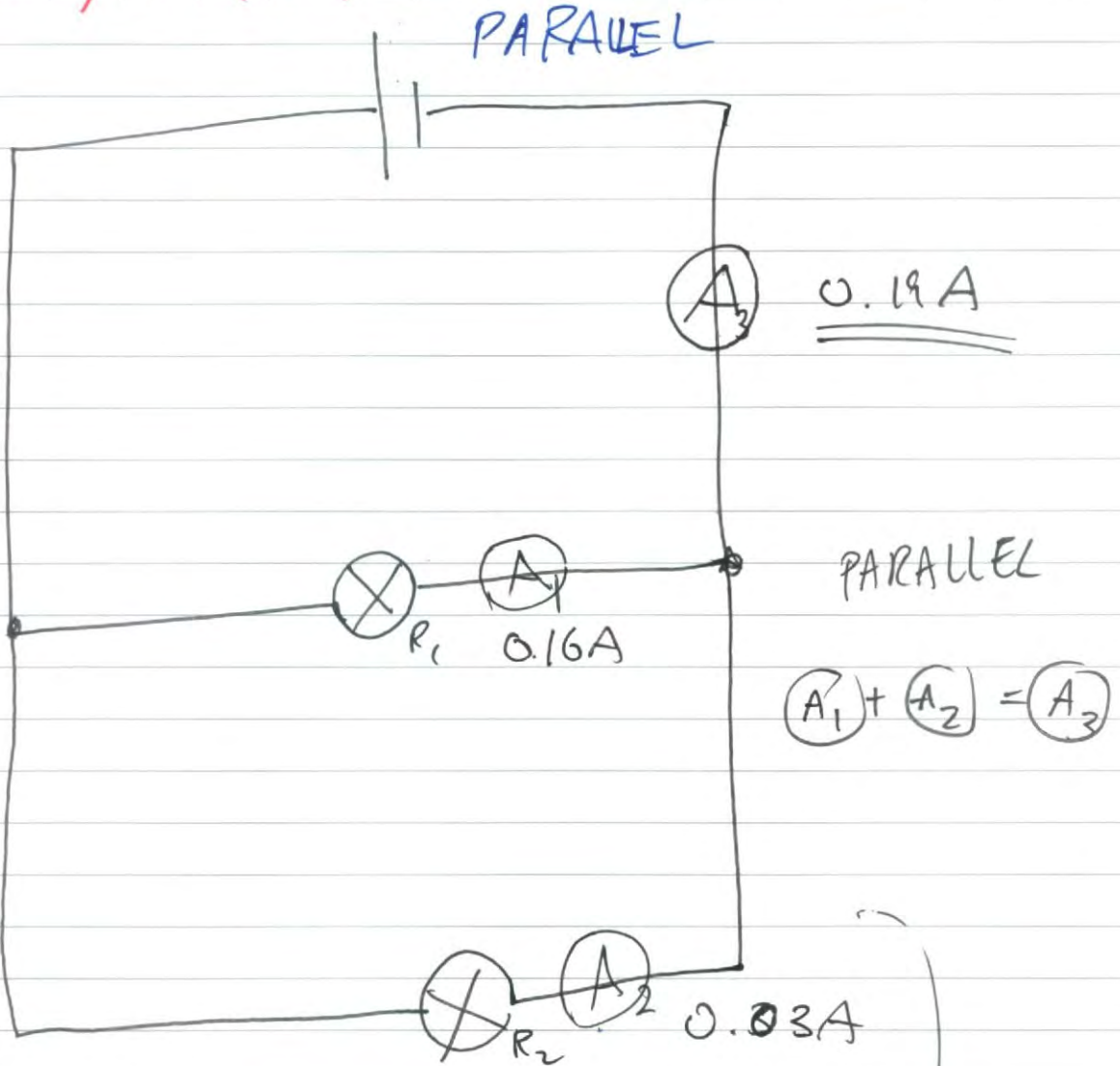
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Electricity

Electricity lab (intro)

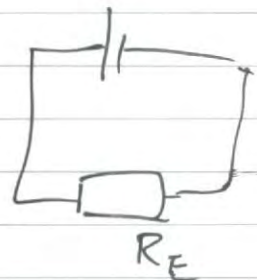
Date

No.



In ~~series~~ parallel $A_{tot} = A_1 + A_2$
 $0.19 = 0.16 + 0.03$

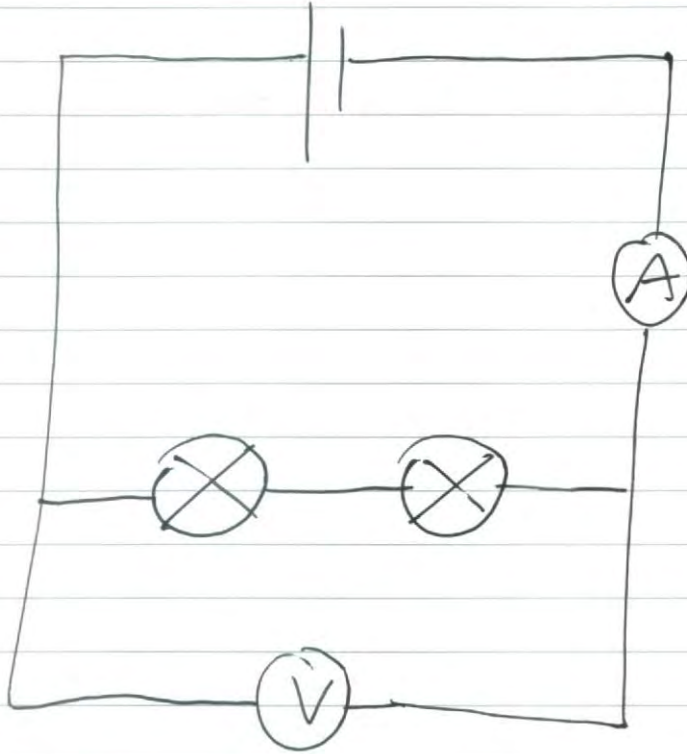
	V	I	R
R_1	1.45V	0.09A	16.1Ω
R_2	1.45V	0.1A	14.5Ω



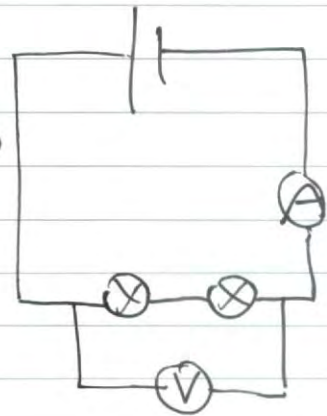
$V_{tot} = I_{tot} (7.63)$
 $I_{tot} = \underline{0.19 A}$

$\frac{1}{R_E} = \frac{1}{16.1} + \frac{1}{14.5}$
 $R_E = 7.63 \Omega$

SERIES



Emf.	V	I	R ↓
2	1.4	0.07	20
3	2.6	0.09	29
4	3.5	0.10	35
5	4.5	0.12	38
6	5.5	0.13	42
8	7.5	0.15	50



	V	I	R
R_1	3.7V	0.12A	30.83Ω
R_2	1.4V	0.12A	11.67Ω

$$V = (0.12)(42.5)$$

$$= \underline{\underline{5.1V}}$$

$$R_E = R_1 + R_2$$

$$= 42.5\Omega$$