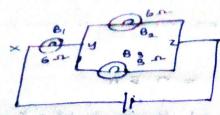
Three bulbs Bi, Ba and Ba are connected to lev supply as shown in the following diagrams.



(1) Calculate total resistance of the buo bulbs Be and Bg .

$$\frac{1}{R} = \frac{1}{6} + \frac{1}{3} + \frac{1+2}{6} = \frac{1}{2} = \frac{2}{12} = \frac{1}{12}$$

(1) What is the total resistance between the two points x and z.

(11) What is the current gained from the electric supply.

$$V = IR$$

$$I = 3+2V$$

$$= 1.5A$$

$$= 28-2$$

(I) Calculate the potential difference between x and Y.

$$V = \pm R$$

$$= 1.5A \times 6 - \Omega$$

$$= 9.0 V$$

(V) Calculate potential difference between For V-IR one galline galling added a 11 MARKEDIN EN SAX 2 TH MI HWOME CO PINCE YEL

(11) Calculate the current flowing through Be bulb. V =IR

(VI) Calculate the current through the bulb Bg.

V=IR $T = V/R = \frac{3V}{3R} = \frac{1A}{1}$

(VIII) If the bulb B3 is removed then what would be the current gain from the electric Same current flow in the B1 and B2. supply.

A 2 01 = V 2+8 1

= losh x 6 -

V 0.0 0

Ir) calculate the potential difference between