R, = 100 ohms R2 = 500 olms

Joseph HATT

CSE Quison.

3100 -01/02

In Sezzes

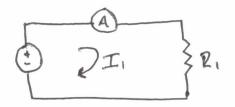
$$\frac{1}{R_{1}} + \frac{1}{R_{2}}$$

$$\frac{1}{100} \div \frac{1}{500} = \frac{6}{500}$$

$$\frac{500}{6}$$

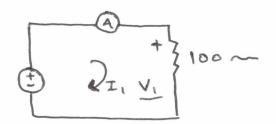
= 93.33 .L.,



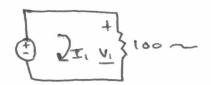


The internal resistance of an multimeter is Q. This means it is short circuited.

A multimeter is used for calculating evenunt and



A ammeter is used to measure correct



KVL: The sum of all potential drops in a loop is equal to zero.

As worked is entering into the negative terminal of 5v. Negative convention is used.

$$-5 + V_{1} = 0$$

$$V_{1} = I_{1} \times 100$$

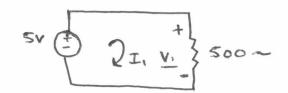
$$V_{1} = 5$$

$$V_{1} = \frac{5}{100}$$

$$= 5 \times 10^{-2} \quad A = 50 \times 10^{-3} A$$

$$I_{1} = 50 \text{ mA}$$

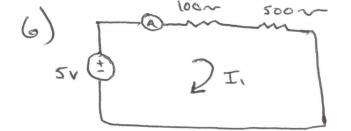




KVL: The sum of all potential drops in a loop is equal to zeen.

Correct is entering into a positive terminal of 500 and negative terminal of 5v. So positive Sign for v, and an negative sign of for 5

$$I_1 = \frac{1}{100}$$



America is short circuited

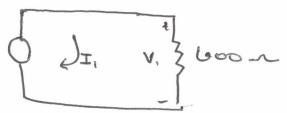
100 ~ and 500 ~ are in a

Series equivalent series

(es) stance = R. + Rz

= 100 + 500

= 600 ~



Positive Sign for Vi and

$$V_{1} = 5$$

$$V_{1} = 5$$

$$V_{1} = I_{1} \times 600$$

$$I_{1} = \frac{5}{600}$$

$$= \frac{5}{6} \times 10^{-2}$$

$$= 8.33 \times 10^{-3} A$$

$$= 8.33 MA$$

Ammeter is short circuited.

R, and Rz are in Parellel

Equivalent parellel

(esistance = & R, 11 Rz

= 100 x 500

600

Positive sign for V. and magnitive sign for 5

$$-5 + V_1 = 0$$
 $V_1 = 5$ 
 $V_1 = \text{Tp} \times 83.33$ 
 $\text{Tp} = \frac{5}{85.33}$