

$$\sqrt{m} = \sqrt{m} + \sqrt{n'}$$

$$= (-26.23 - 5.31) V$$

$$= -31.54 V. Ans.$$

'Power absorpsond;

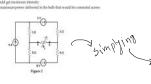
$$P = \frac{(Va)^{2}}{R}$$

$$= \frac{(-31.54V)^{2}}{8}$$

$$= \frac{994.77}{8}$$

$$= 124.34 \text{ Watt.}$$







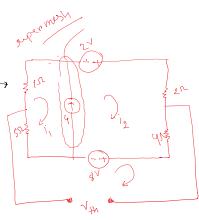
$$PH_{1} = (P_{1} + P_{2}) | 1 (P_{3} + P_{4})$$

$$\Rightarrow (1+2) | 1 (5+4)$$

$$\Rightarrow 2 | 1 | 9$$

$$= \frac{3 \times 9}{3+9}$$

$$= \frac{27}{12} = 2.25 \text{ S.}$$



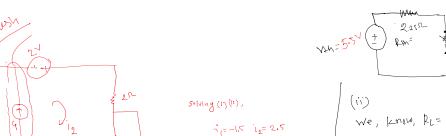
kvl onto supermosh;

(61,-2+612+8=0

(1,+612-6=0

1,+12=1-(i)

equ of supermoshi i, +4=12 = 1,-12=-9--6



(ii) We, know, 
$$R_{L} = R + h_{L}$$
 $20V - 40W$ ; in  $a - b$  terminal;

 $P = \frac{V^{2}}{R}$ 
 $\Rightarrow R = \frac{V^{2}}{P} = \frac{(20)^{2}}{40} = 10$ 

So,  $10 \neq 2.25\pi$ 

So,  $m_{1} \neq 0.25\pi$ 

(iii)  $P_{max} = \frac{(V_{4})^{2}}{4} = \frac{(5.7)^{2}}{4}$ 
 $= \frac{30.25}{9}$ 
 $= 3.36 \text{ Label.}$ 

