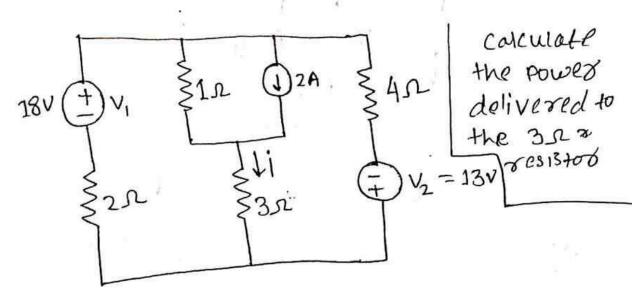
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Answer



Solution

cose-1; consider v, =18v is activated
other are deactivated means
current source is open circuit
and voltage source is short-circuit

$$980 \oplus V_1$$
 $\begin{cases} 111 \\ 111 \\ 111 \end{cases} = \frac{18}{1+3} = \frac{18}{4}$

$$\begin{cases} 111 \\ 111 \\ 111 \end{cases} = \frac{18}{4} = \frac{18}{4}$$

00000

Cose-2; consider 2A Source is activated other are deactivated # use source transformation

1.330 $= \frac{2}{1+3+1\cdot 23}$

 $\frac{\text{Cose-3}}{\text{Ins}^{3}} \text{ consider} \quad V_2 = 13V$

KCL at noule(3)

$$25^{2} = 31^{2} + 4 + 4 + 2 = 0$$

$$31^{2} + 4 + 4 + 2 = 0$$

$$31^{2} + 4 + 4 + 2 = -13$$

$$31^{2} + 4 + 4 + 2 = -13$$

$$V_{3} = \frac{-13}{4} \text{ volt}$$

$$\left[\frac{1}{3} - \frac{1}{3} = \frac{V_{3}}{4} - \frac{-13}{4} = -0.81 \text{ A} \right]$$

hence
$$i = 1, + 12 + 13$$

$$= 4.5 + 0.375 - 0.81$$

$$1 = 4.065 A$$

· paper delivered by 352 resistor
$$P = i^2 \times 3 = (4.065)^2 \times 3 = 49.57 \, W$$

Likes: 0 Dislikes: 0