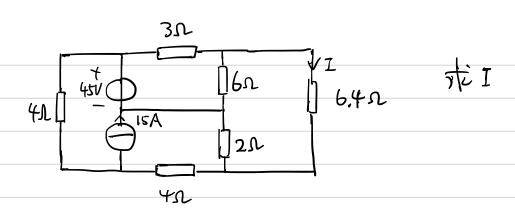


$$\begin{aligned} & \text{Vab} = \text{Vcd} + 40\text{V} \\ & | 2 + 1 \cdot \vec{1} + 2\vec{1} + 2\vec{1} + \vec{1} - 8 + 2\vec{1} + 2\vec{1} = 0 & \text{I} = -0.4\text{ A} \\ & | 2 + (1 + 2 + 2)\vec{1} - \text{Vab} = 0 & \text{Vab} = 10\text{ V} \end{aligned}$$

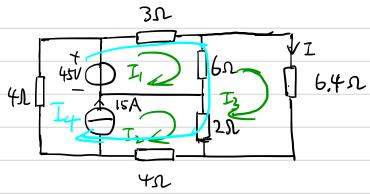
$$= \frac{12 + (1 + 2 + 2)\vec{1} - \text{Vab}}{12 + (2 + 2 + 1)\vec{1} - 8} = 0 & \text{Vab} = 10\text{ V}$$





$$I = \frac{U_{2} - U_{4}}{6.40} = 3.3A$$

到路边。



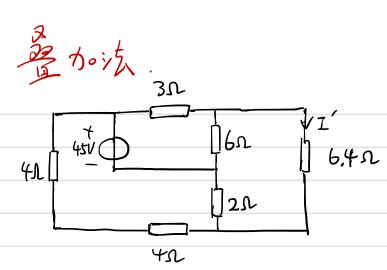
$$(3+6)I_{1} - 6I_{3} + (3+6)I_{4} = 45$$

$$I_{2} = 15/4$$

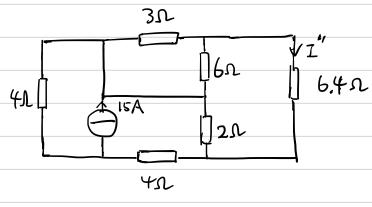
$$-6I_{1} - 2I_{2} + (2+6+6+4)I_{3} - (2+6)I_{4} = 0$$

$$(3+6)I_{1} + (2+4)I_{2} - (2+6)I_{3} + (3+6+2+4)I_{4} = 0$$

$$I = I_{3} = 3.3A$$



国路域 节点波 I'=2.[A



## 载维有

