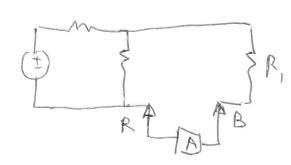


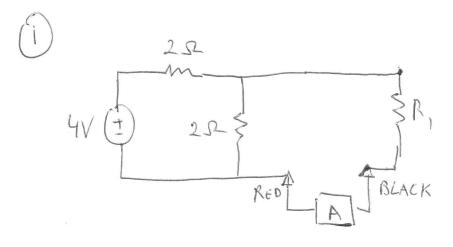
(3) (1)
$$\times = -2V$$

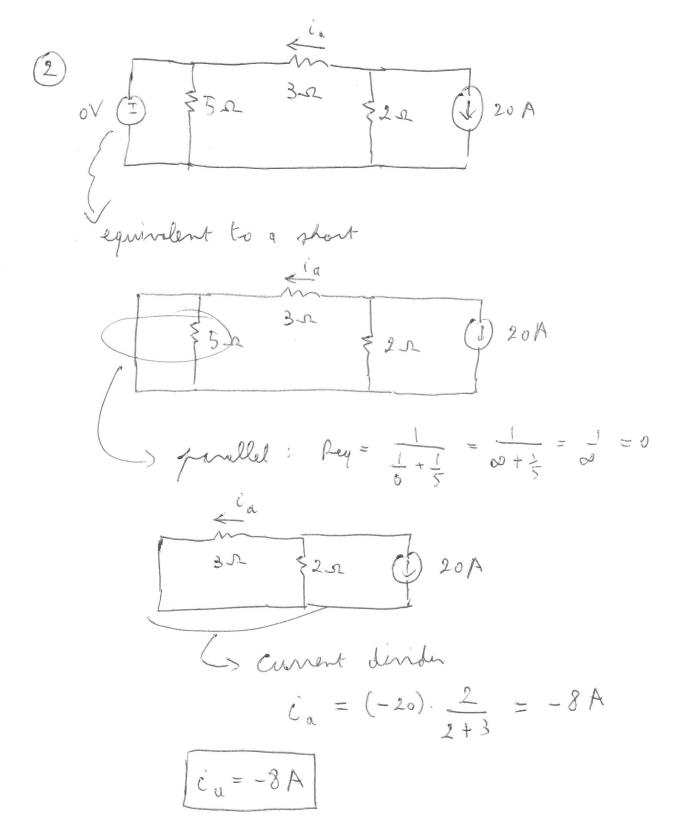
$$\begin{array}{ccc}
\bullet & \bullet & \bullet \\
\bullet & \bullet &$$

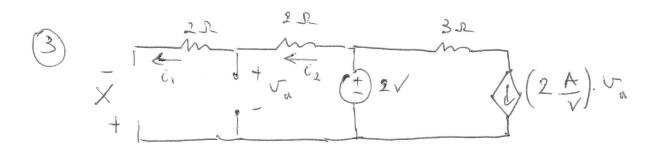


(Î)







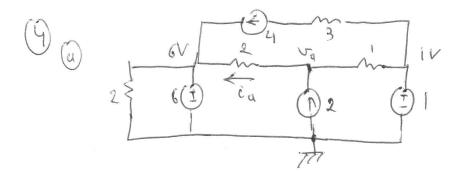


$$\begin{array}{ccc}
\dot{c} &= 0 & \dot{c}_1 &= 0 & A \\
\dot{a} &\Rightarrow & \nabla_a &= 2 & V &\Rightarrow & X &= -2 & V
\end{array}$$

$$2V \oplus J - 4A$$
 $P = 2(-4) = -8W$ received $P_1 = 8W$ supplied

(e)
$$V_1 = 3\Omega \cdot YA = 12V$$

 $KVL: -2 + V_1 + V_2 = 0 \Rightarrow V_2 = 2 - V_1 = -10V$



modal analysis:
$$\frac{\sqrt{a-6} + \sqrt{a-1}}{2} - 2 = 0 \Rightarrow \sqrt{a-6} + 2(\sqrt{a-1}) - 4 = 0$$

$$3\sqrt{a} - 12 = 0$$

$$\sqrt{a} = 4V$$

$$c_{1} = \frac{\sqrt{a-6}}{2} = \frac{4-6}{2} = -1$$

$$c_{2} = -1A$$

$$(b) (c)$$

$$(c)$$

$$(d)$$

Consider much currents
$$i_x$$
 and i_y : $i_a = i_y - i_x = -1$

$$\Rightarrow i_x = i_y - i_a = -4 - (-1) = -3$$

$$[i_x = -3]$$

$$\otimes$$
 U_1 is the sum $U_2 = U_3 - 0 = 4 \Rightarrow U_4 = 0 - U_5 = 4$

$$U_5 = U_4 - 0 = 4 \Rightarrow U_4 = 0 - U_5 = 4$$

$$U_7 = U_4 - 0 = 4 \Rightarrow U_7 = 0 - U_7 = 4$$