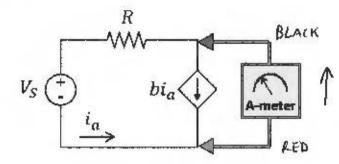
(4) What is the reading X from the ammeter?

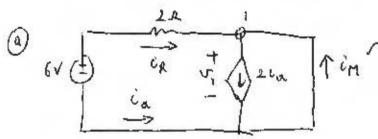
Vs = 6V

What would be the reading Y if we replaced the ammeter by a volt-meter?

R = 20

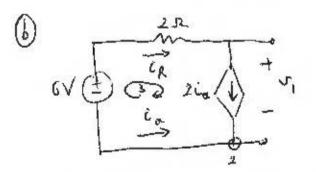
$$b = 2 A/A$$





$$\Rightarrow c_R = \frac{6 - c_1}{R} = \frac{6}{2} = 3A$$

$$\Rightarrow i_{\alpha} = -i_{R} = -3A$$



$$KCLD2: C_a + 2c_a = 0 \implies c_a = 0 \implies c_a = 0$$

$$\implies c_a = 0$$

KVL 3:
$$6V = i_R \cdot 2 + v$$
, $\Rightarrow v_1 = 6V$

$$\boxed{Y = 6V}$$