Find the value of the current i_b . Use mesh analysis.

Va = 16 V

 $R1 = 2 \Omega$



 $R3 = 8 \Omega$

$$R4 = 1 \Omega$$

$$b = 2 V/A$$

$$la = 1 A$$

$$\mathcal{E}_{3} = -\mathbf{I}_{4} = -1\mathbf{A}$$

$$\mathcal{E}_{b} = \mathcal{E}_{2} - \mathcal{E}_{3} = \mathcal{E}_{2} + 1$$

$$\Re$$
 MESH 2: $8(i_1-i_1)+6i_2+1\cdot(i_2+1)=0$
 $-8i_1+15i_2=-1$ (2)

$$5 \times (1) + (2)$$
: $17 \cdot i_1 = 34 \implies i_1 = 2A \implies i_2 = 1A$

$$i_b = i_2 + 1 \implies i_b = 2A$$

CHECK KUL

