



Dot convention

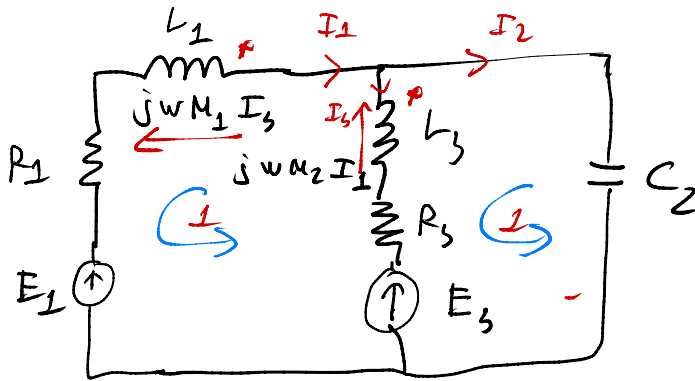
1 / Preference : 

 Dot convention

2 / Mutual inductor current

$L_1 : V_1 = j\omega M_1 I_2$  ↗ Mutual inductance  $I_2$  from  $L_1$

$L_2 : V_2 = j\omega M_2 I_1$



$$\text{Loop 1: } i_1 R_1 + i_1 \cdot j\omega L_1 + j\omega L_3 (i_1 - i_2) + R_3 (i_1 - i_2) + j\omega M_2 I_1 + j\omega M_1 I_3 = E_1 - E_3$$

