

V_{TH}: V_{ab}, V_{oc}

$\vec{I}_o = 10 \text{ A}$

$-15\angle 0^\circ + \vec{I}_o + 0.5\vec{I}_o = 0$

$\vec{I}_o = 10 \text{ A}$

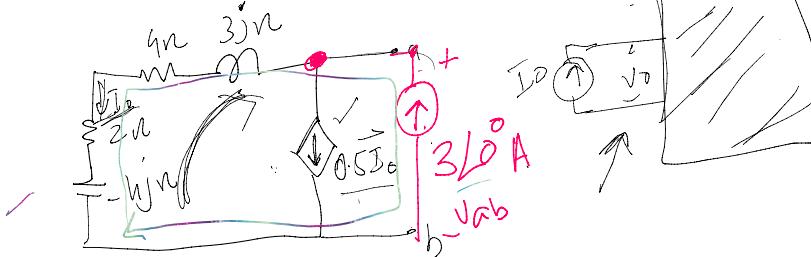
$\vec{I}_o(4+3j) + \vec{V}_{TH} = 0$

$-\vec{I}_o(2-j) = 0$

$\vec{V}_{TH} = 55\angle 90^\circ \text{ V}$

$$2e_1 = \frac{\vec{V}}{1}$$

Z_{TH}:



KVL \rightarrow

$-\vec{I}_o(6-j) + \vec{V}_{ab} = 0$

$\vec{V}_{ab} = (12-2j)$

$Z_{TH} = \frac{\vec{V}_{ab}}{3\angle 0^\circ} = ?$

$\vec{I}_o + 0.5\vec{I}_o = 3\angle 0^\circ$

$\vec{I}_o = 2 \text{ A}$

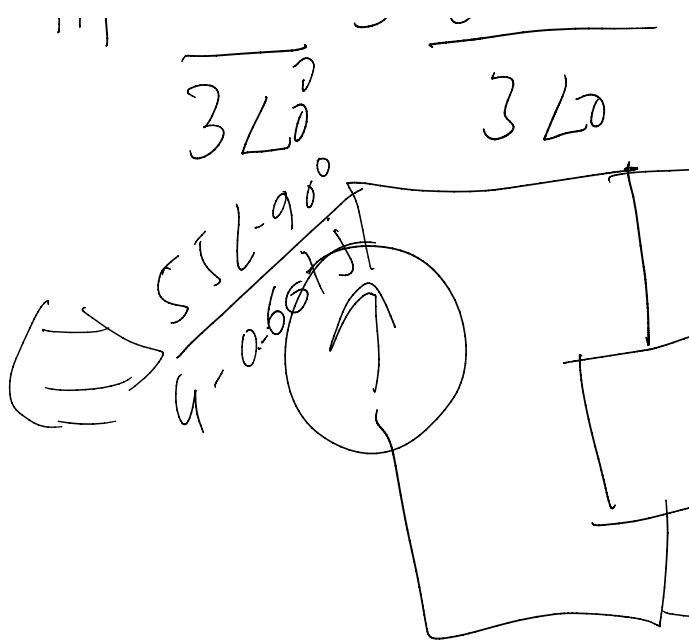
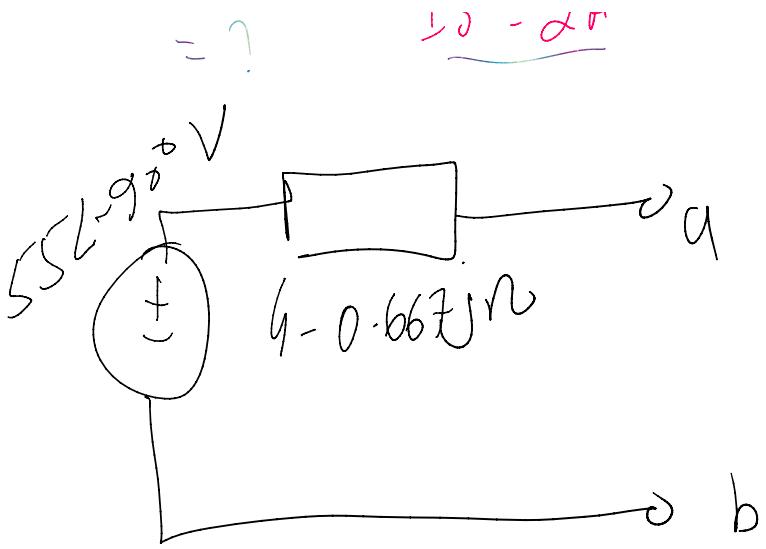
$Z_{TH} = \frac{\vec{V}_{ab}}{?} = \frac{12-2j}{?} =$



b=0

✓

-4-0.667 j n



r

$y = 0.667^n$

θ