ET 332b
Single Phase Ac Circuit Analysis
The circuit below has the following component values:
$\mathrm{R}_{1}=3 \Omega \quad \mathrm{X}_{\mathrm{L} 1}=5 \Omega$
$\mathrm{R}_{2}=10 \Omega \quad \mathrm{X}_{\mathrm{L} 2}=7 \Omega \quad \mathrm{X}_{\mathrm{C}}=50 \Omega$
$E=240 \angle 0^{\circ}$
Find the total source current $I_{T}$ and the voltage between the points $A$ and $B$ on the diagram below. (Voltage across equivalent of all components $\mathrm{R}_{2}, \mathrm{X}_{\mathrm{L} 2}$, and $\mathrm{X}_{\mathrm{C}}$.)


