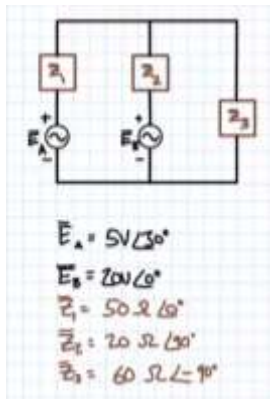
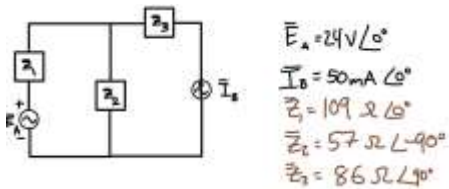


## AC Superposition Theorem Examples (30:06)

Apply the superposition theorem to determine the electrical properties for elements in this circuit.



Apply the superposition theorem to determine the electrical properties for elements in this circuit.



ERROR @ 18:00

when  $I_B$  is source of interest  $V_2$  and  $V_1 = 2.5V \angle -62.4^\circ$  oriented + to - top to bottom

Final results:  $V_1 = 21.4V \angle 34.4^\circ$  oriented + to - bottom to top

$I_1 = 196.8 \text{ mA} \angle 34.4^\circ$

$V_2 = 13.6V \angle -62.4^\circ$  + to - top to bottom

$I_2 = 239.4 \text{ mA} \angle 27.6^\circ$

Apply the superposition theorem to determine the electrical properties for elements in this circuit.

