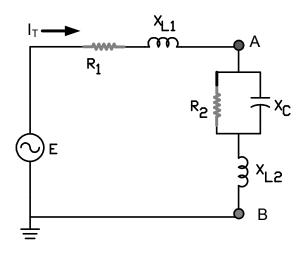
ET 332b Single Phase Ac Circuit Analysis

The circuit below has the following component values:

$$R_1 = 3 \Omega$$
 $X_{L1} = 5 \Omega$ $R_2 = 10 \Omega$ $X_{L2} = 7 \Omega$ $X_C = 50 \Omega$

$$E = 240 \angle 0^{\circ}$$

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 R_2 , X_{L2} , and X_C .)



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