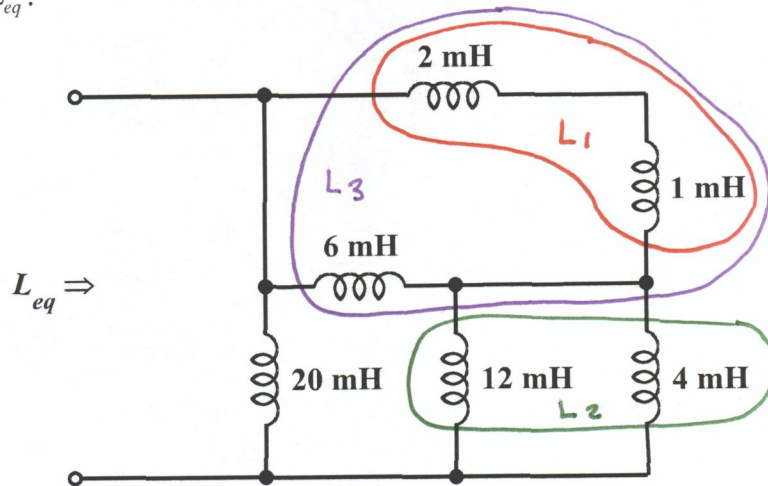


EE 2240  
Problem #01

Find the value of  $L_{eq}$ .



$$L_1 = 2\text{mH} + 1\text{mH} = 3\text{mH}$$

$$L_2 = \frac{1}{\frac{1}{12\text{mH}} + \frac{1}{4\text{mH}}} = 3\text{mH}$$

$$L_3 = \frac{1}{\frac{1}{6\text{mH}} + \frac{1}{L_1}} = 2\text{mH}$$

$$L_{eq} = \frac{1}{\frac{1}{20\text{mH}} + \frac{1}{L_3 + L_2}} = 4\text{mH}$$