

Chapter 6, Solution 54.

Find the equivalent inductance looking into the terminals of the circuit in Fig. 6.76.

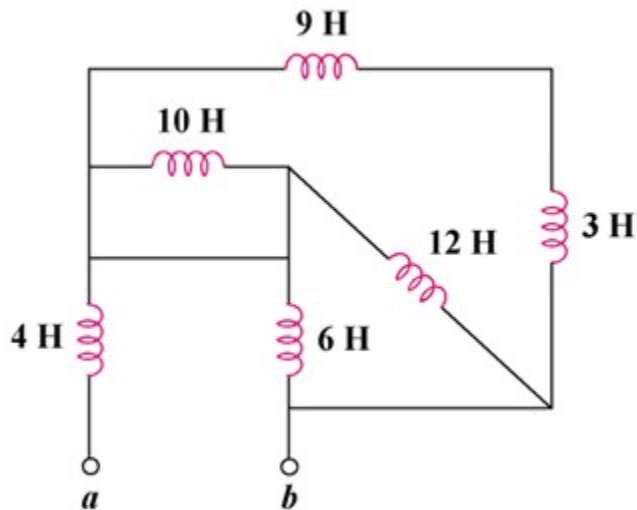


Figure 6.76
For Prob. 6.54.

Solution

$$L_{eq} = 4 + (9 + 3) \parallel (10 \parallel 6 + 12)$$

$$= 4 + 12 \parallel (6 + 4) = 4 + 3$$

$$L_{eq} = 7\text{H}$$