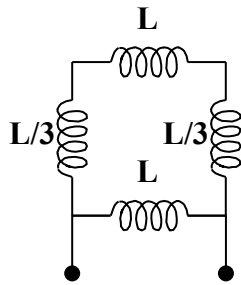


**Chapter 6, Solution 56.**

$$L \parallel L \parallel L = \frac{1}{\frac{1}{L} + \frac{1}{L} + \frac{1}{L}} = \frac{L}{3}$$

Hence the given circuit is equivalent to that shown below:



$$L_{eq} = L \parallel \left( L + \frac{2}{3}L \right) = \frac{L \times \frac{5}{3}L}{L + \frac{5}{3}L} = \frac{5}{8}L$$