

**Chapter 6, Solution 53.**

$$L_{\text{eq}} = 6 + 10 + 8 \parallel [5 \parallel (8 + 12) + 6 \parallel (8 + 4)]$$

$$= 16 + 8 \parallel (4 + 4) = 16 + 4$$

$$L_{\text{eq}} = \mathbf{20 \text{ mH}}$$