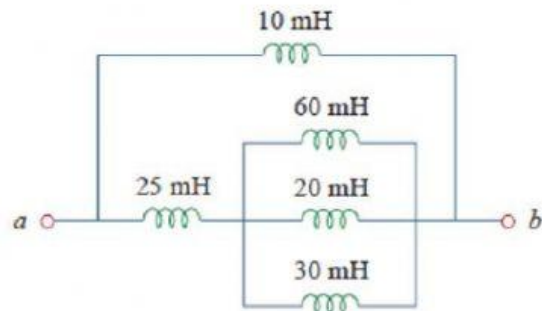


แบบฝึกหัดที่ 25	เรื่อง Inductor(1)	
รหัส 30104-1002	วิชา วงจรไฟฟ้า 1	
ชื่อ-สกุล	ชั้น	เลขที่

จากรูป จงหาค่าการเหนี่ยวนำรวม L_T ที่จุด $a - b$ ของวงจรดังต่อไปนี้

a) วิธีทำ



$$\frac{1}{L_{1T}} = \frac{1}{L_{60}} + \frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}}$$

$$= \frac{1}{\boxed{}} + \frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}} = \boxed{}$$

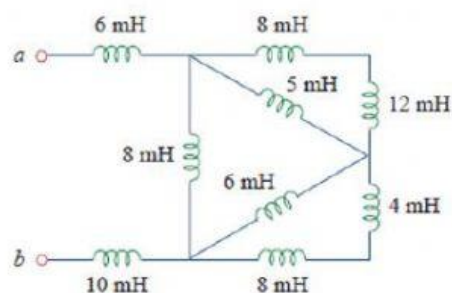
$$L_{1T} = \boxed{} \boxed{} = \boxed{} \text{ mH}$$

$$L_{2T} = L_{25} \boxed{} \boxed{} = \boxed{} \boxed{} = \boxed{} \boxed{}$$

$$L_T = \frac{L_{2T} \boxed{} \boxed{}}{\boxed{} \boxed{}} = \frac{\boxed{} \boxed{}}{\boxed{} \boxed{}} = \boxed{} \boxed{}$$

Ans.

b) วิธีทำ



$$L_{8,12} = L_8 \boxed{} \boxed{} = \boxed{} \boxed{} = \boxed{} \text{ mH}$$

$$L_{1T} = \frac{L_5 \times \boxed{}}{\boxed{} \boxed{}} = \frac{\boxed{} \boxed{}}{\boxed{} \boxed{}} = \boxed{} \boxed{}$$

$$L_{4,8} = L_4 \boxed{} \boxed{} = \boxed{} \boxed{} \boxed{} = \boxed{} \boxed{}$$

$$L_{2T} = \frac{L_6 \times \boxed{}}{\boxed{} \boxed{} \boxed{}} = \frac{\boxed{} \boxed{} \boxed{}}{\boxed{} \boxed{} \boxed{}} = \boxed{} \boxed{}$$

$$L_{3T} = L_{1T} \boxed{} \boxed{} = \boxed{} \boxed{} \boxed{} = \boxed{} \boxed{}$$

$$L_{4T} = \frac{L_8 \times \boxed{}}{\boxed{} \boxed{} \boxed{}} = \frac{\boxed{} \boxed{} \boxed{}}{\boxed{} \boxed{} \boxed{}} = \boxed{} \boxed{}$$

$$L_T = L_6 \boxed{} \boxed{} \boxed{} \boxed{} = \boxed{} \boxed{} \boxed{} \boxed{}$$

$$= \boxed{} \boxed{} \quad \text{Ans.}$$