

40. (a) Speaking anthropomorphically, the coil wants to fight the changes – so if it wants to push current rightward (when the current is already going rightward) then i must be in the process of decreasing.
- (b) From Eq. 31-37 (in absolute value) we get

$$L = \left| \frac{\mathcal{E}}{di/dt} \right| = \frac{17 \text{ V}}{2.5 \text{ kA/s}} = 6.8 \times 10^{-4} \text{ H} .$$