A coil is 10 cm x 10 cm and is in a 0.5 Tesla magnetic field. What is the flux through the coil (Mx)?

A. 5 T \cdot m^2
B. 0.5 T \cdot m^2
C. 5 \times 10^{-3} T \cdot m^2
D. 10 T \cdot m^2
E. 10^{-2} T \cdot m^2
A current flows in a coil. Which direction is the magnetic field?

A.)
B.)
A magnetic field drops from 1 Tesla to 0 in $\frac{1}{160}$ sec. in a coil with an area $4 \text{ m}^2$. What is the induced voltage? (N=1)

1. 1 Volt
2. $\frac{1}{2}$ Volts
3. $\frac{1}{160}$ Volt
4. $\frac{1}{125}$ Volt
Which direction does the current flow in the coil?

A.)
B.)
A transformer has

\[ \text{Vin} \quad \text{B turns} \quad 2 \text{turns} \quad \text{Vout} \]

If the output voltage is 10 volts, what is the input voltage?

A. 7 Volts  
B. 15 Volts  
C. 25 Volts  
D. 10 Volts  
E. (5-2) Volts