

# Lenz' and Faraday's Law Worksheet

Group name \_\_\_\_\_

Date: \_\_\_\_\_

## A. Review

### 1. Magnetic Forces:

- a. Magnetic force on moving charges:

$$\vec{F} = q\vec{v} \times \vec{B}$$

- b. Magnetic force on electric current:

$$\vec{F} = I\vec{L} \times \vec{B}$$



2. Right hand rule for the direction force is shown in the diagram to the right.

### 3. Magnetic Flux

a.  $\Phi_B = \vec{B} \cdot \vec{A} = BA \cos\theta$

- b. If  $B$  and  $A$  point in the same direction, the flux is positive.  
c. If  $B$  and  $A$  point in opposite directions, the flux is negative.



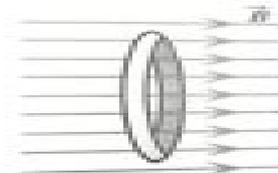
### 4. Lenz's Law

- a. The flux due to the loop always opposes the change in the flux due to the external magnetic field.

### 5. Faraday's Law

- a. A change in magnetic flux produces an emf.

b.  $|\epsilon| = |\Delta\Phi_B / \Delta t|$

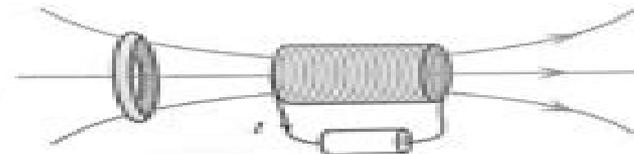


## B. Induced Currents

1. A copper loop is placed in a uniform magnetic field as shown on the right. Determine whether there would be a current through the wire in each case below and explain your answer.

- a. Stationary Loop  
b. Loop moves to the right  
c. Loop moves to the left

2. The loop is now placed in a magnetic field produced by a solenoid, shown to the right. Repeat the questions in 1 for this new scenario.



## C. Lenz' law

1. Now we place the copper ring in a magnetic field as in B1. If the magnitude of the magnetic field decreases with time.
2. Would there be a current in the loop? If so, what would be its direction?

# Faraday S Law Worksheet With Answers

**Stewart C. Bushong**



## Faraday S Law Worksheet With Answers:

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