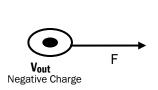
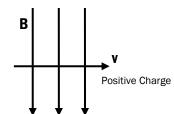
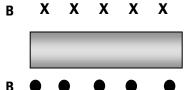
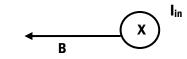
## Questions

- 1. A beam of electrons moves at right angles to a  $0.0239 \, \text{T}$  magnetic field. The electrons have a velocity of  $4.91 \, \text{x} \, 10^5 \, \text{m/s}$ . What is the magnitude of the force on each electron?
- 2. A 0.65 meter section of wire in a circuit has a current of 8.75 A flowing through it. It is placed into a magnetic field and experiences a force of 1.86 N. What is the magnitude of the magnetic field?
- 3. A straight wire, 3.26 meters long, moves at 2.23 m/s in a perpendicular direction to a 4.47 T magnetic field. What is the EMF induced in the wire?
- 4. Find the direction of the magnetic field, conventional current or force using the hand rules.









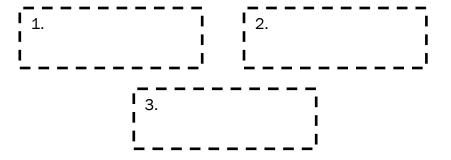
# Magnetism

Name			
vallic			

#### Definitions

1.	Lodestone
2.	Ferromagnetic Materials
3.	Permanent Magnet
4.	Temporary Magnet
5.	Electromagnet
6.	Domain -
7.	Magnetic Flux -
8.	Electromagnetic Induction
9.	Electromotive Force

### Equations (not on Reference Tables)



#### Magnetic Field Lines

Draw the field lines for the following configurations

N S	N S	
N S	S N	S N N S