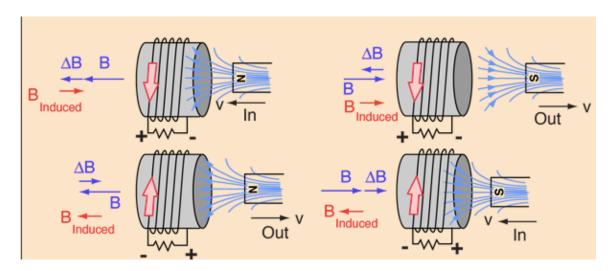
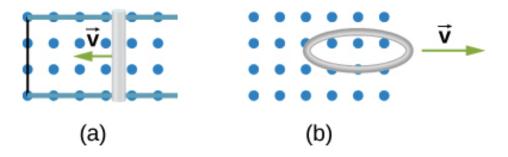
Electromagnetic Induction Practice

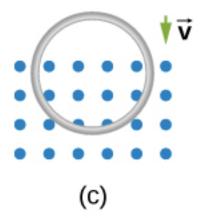
1. Sketch a labeled diagram of Faraday's experiment.
2. What is the difference between magnetic field and magnetic flux?
2. The magnetic flux through a goil of wire containing two loons changes from
3. The magnetic flux through a coil of wire containing two loops changes from -50 Wb to +38 Wb in 0.42 s. What is the emf induced in the coil?

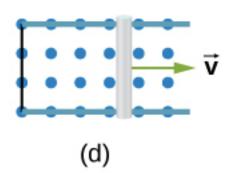
Lenz's Law

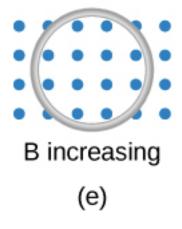


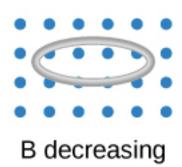
4. Use Lenz's Law to determine the direction of induced current in each scenario.











(f)

5. A 12.0-cm diameter wire is initially oriented perpendicular to a 1.5-T magnetic field. The loop is rotated so its plane is parallel to the field direction in 0.20s. What is the average induced emf in the loop?

6. What is the direction of the induced current in the circular loop due to the current shown below:

