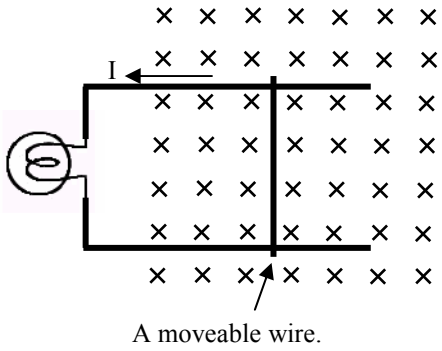
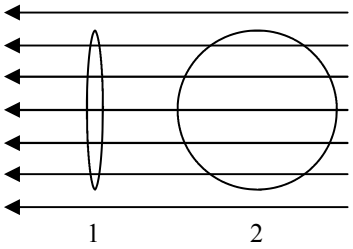
Due 4_30

1) Answer these questions at the end of Chapter 22: 22; 31; 37; 38;

2) A magnetic field pointing into the page. A circuit extends into the field. The wire at the right side of the circuit is movable (though it makes good electrical contact). Which direction should you move the wire to produce the current shown?



3) A magnetic field points to the left. A wire loop is turned inside the field.
   A) In which position is the emf greatest?
   B) Why?



You MUST start reading Chapter 23. I will lecture tomorrow on it. Mr. Parsons thinks that the chapter is pretty easy, but I'm concerned, since I don't know what's on the test. Take it seriously—read the chapter.

Photoelectric effect—

Intensity of light = the amplitude of the light (brightness). In sound, amplitude = energy. Is this true in light? Maybe. It would seem so, but intensity = the number of photons. More photons do equal more total energy, but each photon does not have more energy. Regardless of the intensity, each photon cannot liberate an electron.

Compton Shift help -

E = hf. The energy of a photon depends only on the _____ of a photon. A decrease in the energy of the photon requires a decrease in the _____ of the photon.

Answer these questions at the end of Chapter 23: 4; 6; 7; 8; 9; 11; 12; 13; 14; 18; 19; 25.