'Faraday's law - let's try ít!

The coil (face in the plane of the page) is bathed in an 8 Tesla B-fld oriented perpendicularly into the page. The resistance in the coil is 200 ohms. Its radius is 0.12 meters. The clock starts at t = 0. At t = 5.0 seconds, the B-fld drops to zero over a 0.2 second period.



- a.) At t = 2 seconds, is there a magnetic flux through the coil?
- b.) At t = 2 seconds, is there an induced EMF in the coil? If so, what is it?
- c.) At t = 5.1 seconds, is there an induced EMF in the coil? If so, what is it?
- d.) At t = 5.1 seconds, what is the induced current in the coil?
- e.) At t = 5.1 seconds, what is the direction of the induced current?
- f.) At t = 5.5 seconds, is there an induced EMF in the coil?
- g.) At t = 5.5 seconds, what is the magnetic flux?