

Solutions

Each answer shows the steps, then the **result**.

2.1

- Lenz's law

2.2

- the induced current opposes the change in flux, so the force it feels acts against the motion that is causing the change

2.3

- eddy currents

3.1 B

3.2 B

3.3

(a)

- yes

(b)

- opposite to the motion (it resists being pulled out)

(c)

- the work done pulling the loop becomes electrical energy in the induced current, then thermal energy in the loop's resistance