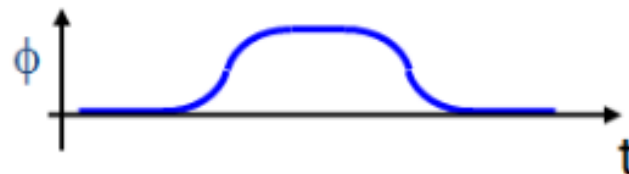
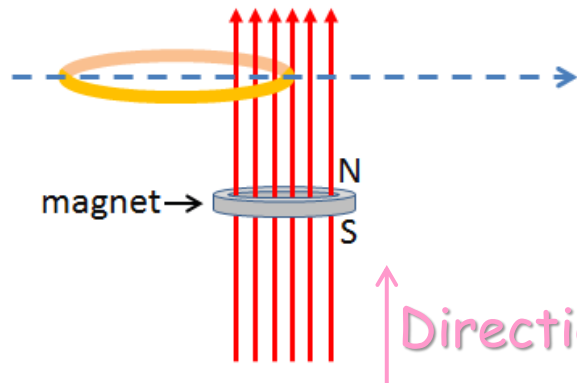


# Checkpoint 3

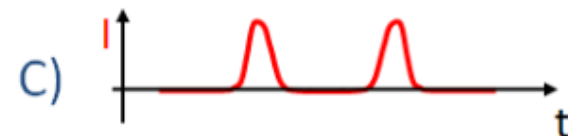
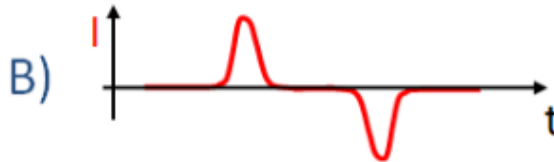


A magnet makes the vertical magnetic field shown by the red arrows. A horizontal conducting loop is entering the field as shown.



↑ Direction of positive flux

The upward flux through the loop as a function of time is shown by the blue trace. Which of the red traces below it best represents the current induced in the loop as a function of time as it passes over the magnet? (Positive means counter-clockwise as viewed from above):



*Flux is changing!*

Induced flux is initially negative (opposing increasing positive flux – last checkpoint)

THEREFORE, initial *induced current* must be CW as viewed from above

- Current direction from right-hand rule 😊

