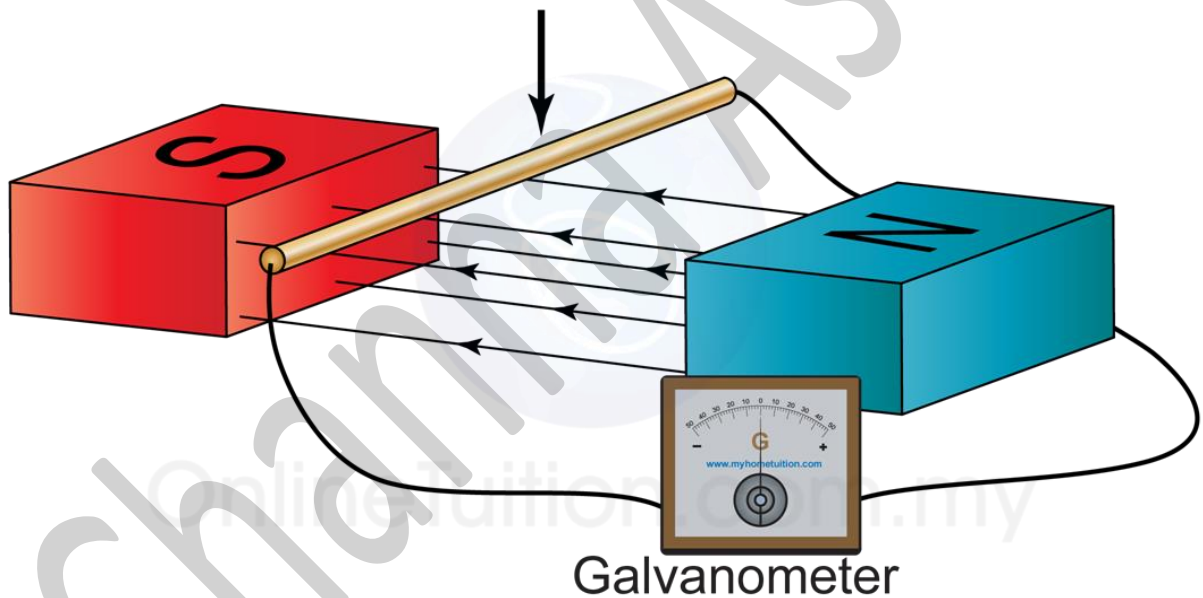


Electromagnetic induction

- 1) When a moves in a magnetic field, a will be generated and flow through the
- 2) This is called
- 3) The magnitude of the can be increased by
 - (i) Increasing of the of the wire.
 - (ii) Increasing the of the kept in the
 - (iii) Increasing the of the

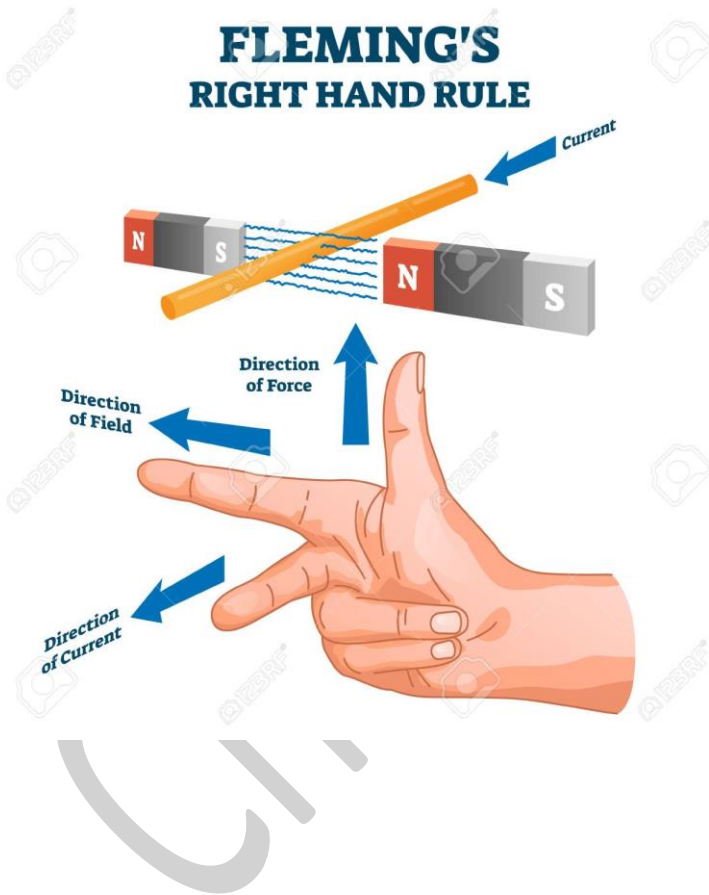


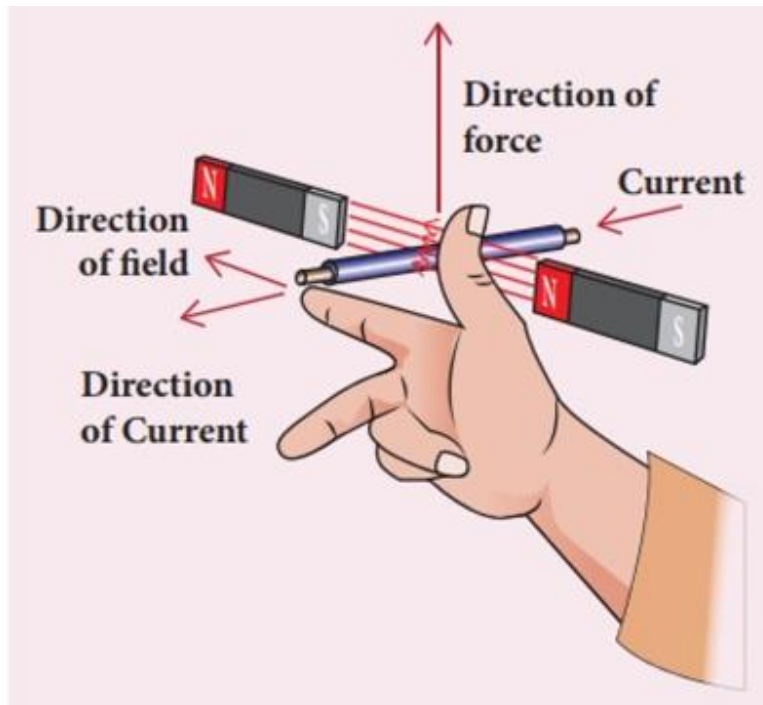
How to find the of the flow when a is moved in a

Use Fleming's hand law

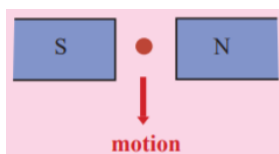
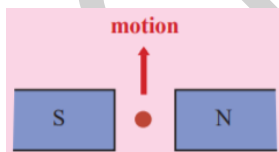
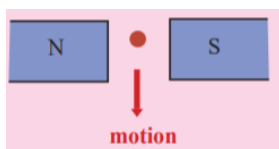
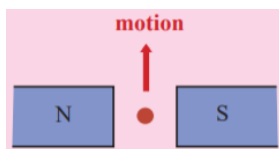
Fleming's hand law.

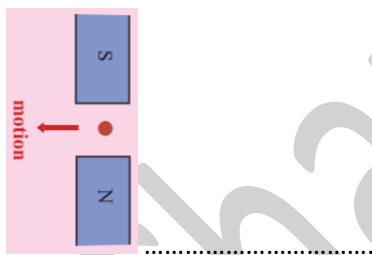
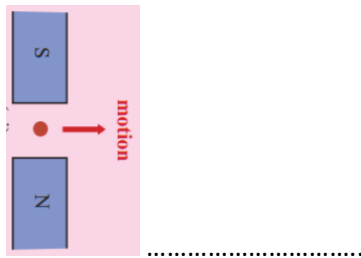
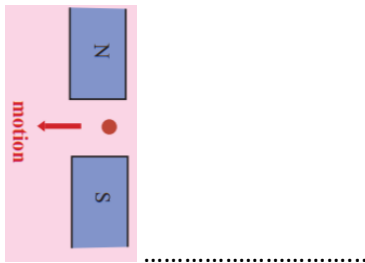
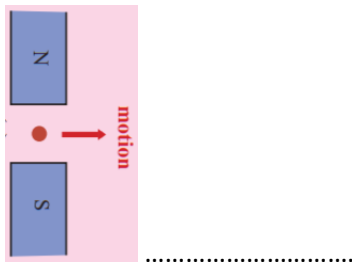
- 1) Use the hand.
- 2) Keep the,finger and the fingerto each other.
- 3) Direct the (.....) to the direction of the (..... →.....).
- 4) Direct the (.....) to the direction of the applied on the to move.
- 5) The (.....) will be directed to the direction of the



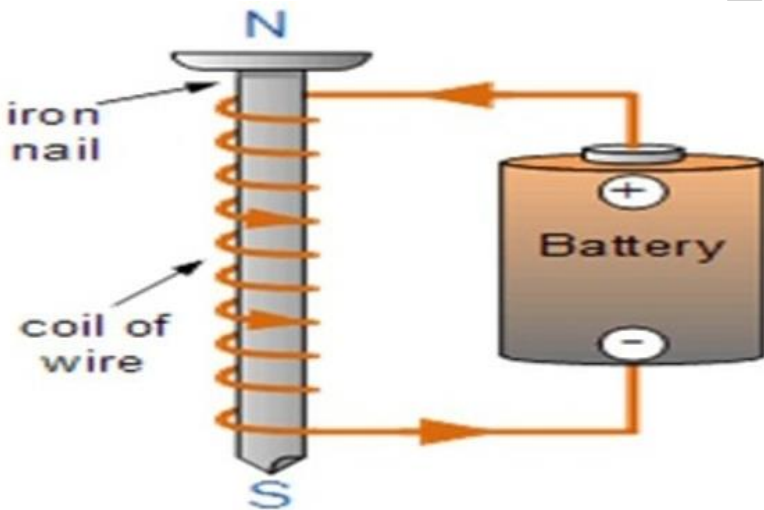
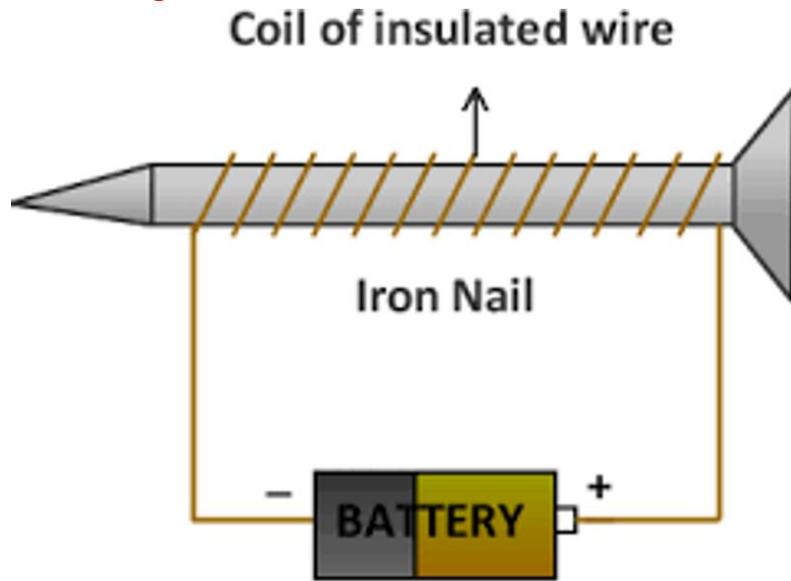


Find the direction of induced when a is moved in a





Electromagnets

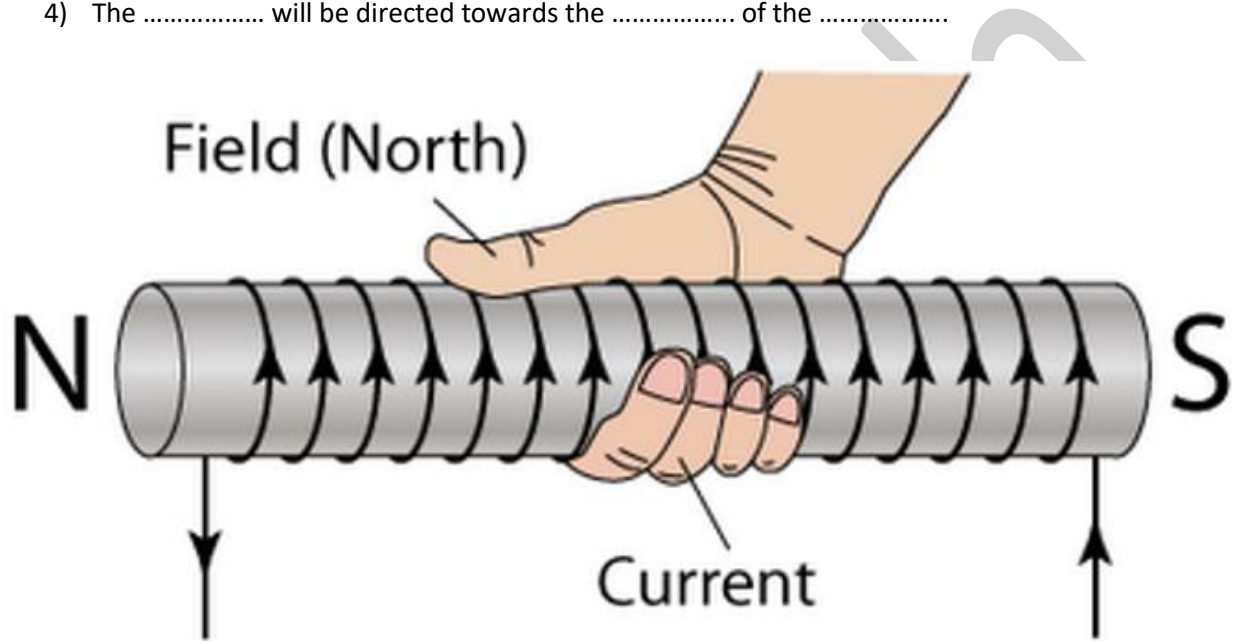


How to increase the magnitude of the

- 1) Have more of in the coil.
- 2) Increase the flow by increasing more

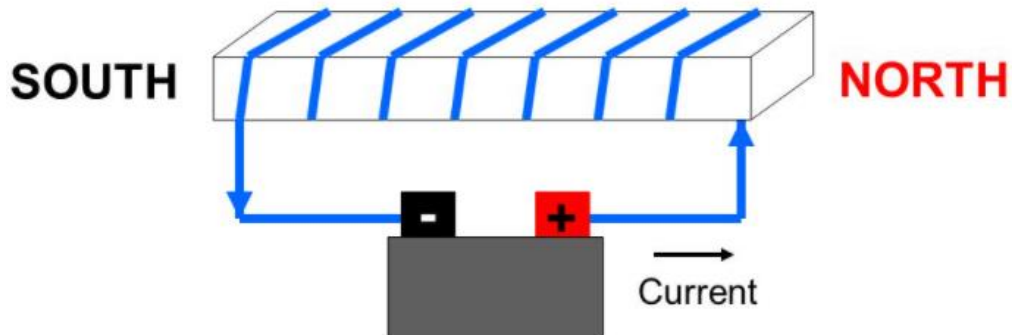
How to find the pole of an

- 1) Use the hand.
- 2) Flex the and keep the straight.
- 3) Now direct the flexed to the direction of the flow.
- 4) The will be directed towards the of the

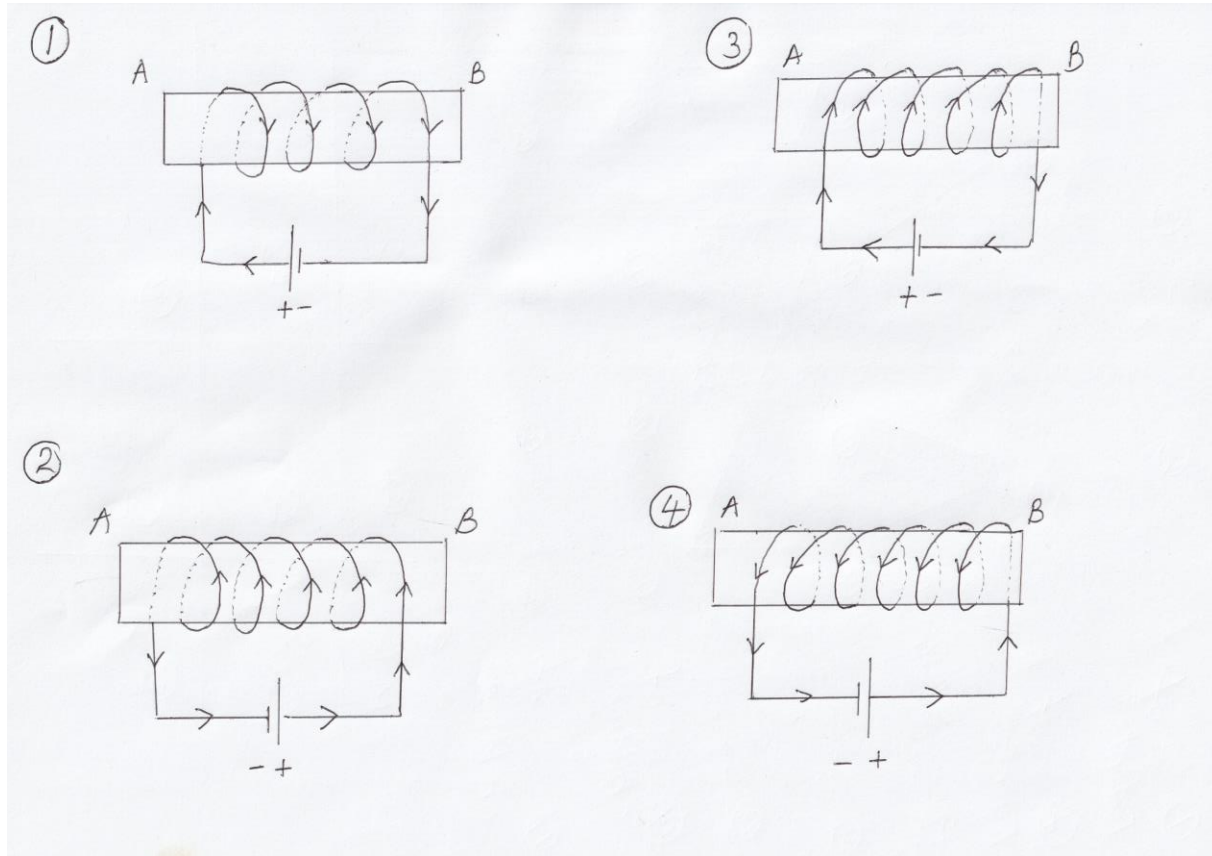


How to change the

- 1) Change the direction of the flow by changing the of the
- 2) Change the direction of the of the



In which instance the current will be generated



Electromagnetic induction - producing using a and a

Electromagnetic induction is the generation of an (e.m.f.) between the terminals of a

(i) when the is kept at in a changing

(ii) When a is in a constant

