

1. The picture shows a square loop inside a horseshoe magnet.

- A) How could you tell if it was a motor or a generator just by looking at it? *Has \leftarrow means to put work in.*
- B) What would you need to know to know if it was a motor or a generator? *Is the work coming in or out?*
- C) If this did not have a commutator, what would happen if electricity were put in side S?

It would come in & out S ac current

D) If it were a generator, without a commutator, would it produce DC or AC current?

E) When will it break more magnetic field lines: when vertical or horizontal?

F) If a generator, is the turning coil due to B or an external force?

G) So, is the moving wire I or F for the RHR?

H) On the right side the loop is going down, so which way is the current going: out S or out T?

I) As the loop moves from horizontal to vertical does B increase or decrease inside the loop?

