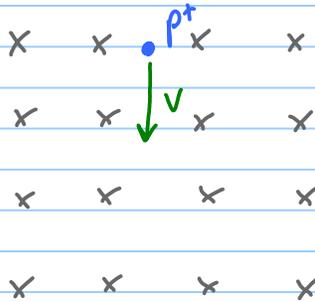


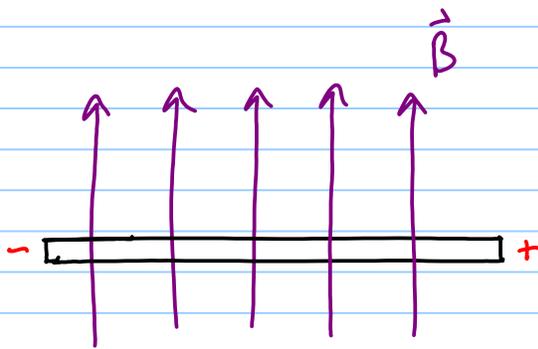
# Quiz 2 b

1.) A proton enters a 0.75 T magnetic field at a velocity of 2500 m/s. What is the magnitude and direction of the deflecting force?

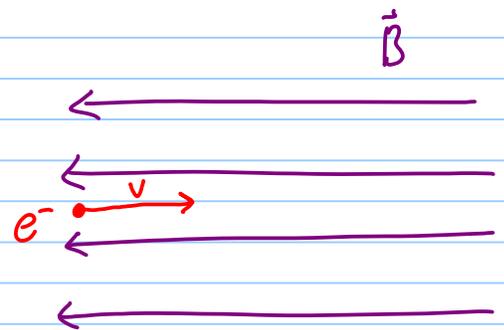


2.) What is the direction of the deflecting forces on the wires or particles shown.

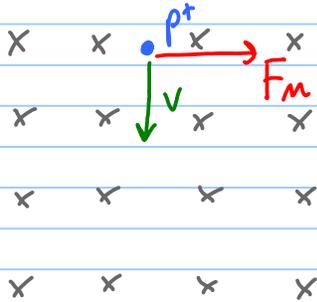
a.



b.



- 1.) A proton enters a 0.75 T magnetic field at a velocity of 2500 m/s. What is the magnitude and direction of the deflecting force?



$$F_m = qvB \checkmark$$

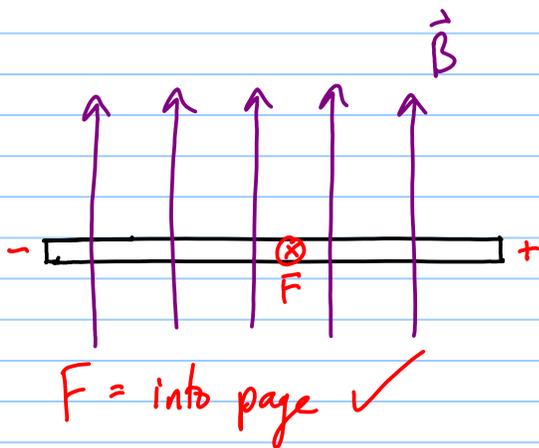
$$= (1.6 \times 10^{-19} \text{ C})(2500 \text{ m/s})(0.75 \text{ T})$$

$$= 3.0 \times 10^{-16} \text{ N right} \checkmark$$

Text

- 2.) What is the direction of the deflecting forces on the wires or particles shown.

a.



b.

