CONCEPT: MAGNETIC FIELD PRODUCED BY MOVING CHARGES

● Remember**:** A charge moving through an existing Magnetic Field FEELS a Magnetic FORCE**.**

● ALSO**:** A moving charge _____ **(**much less popular question**):**

- MAGNITUDE → _____ - Remember $\mu_o = 4\pi*10^{-7}$ N/A² = $1.26*10^{-6}$ N/A²

- Angle **Θ** is between _____ and _____, which is a vector between charge and location of produced field

- DIRECTION comes from RIGHT HAND RULE, by "grabbing" the LINE OF MOTION**.**

EXAMPLE**:** A 3 C charge is moving right with a constant 4 m/s. What is the magnitude and the direction of the magnetic field that this charge produces 2 cm directly above itself**?**