

Name:

1. A 2.5 eV proton rotates in a circle of radius 3.34 cm under the influence of a uniform magnetic field. Calculate the magnitude of the magnetic field.

2. Two long straight wires, having equal but opposite currents, are parallel and 8 cm apart. If the magnitude of the magnetic field at a point halfway between them is $300 \mu\text{T}$, calculate the current.