Homework 7

1. Problem 5.13 (page 231). Hint: use Ampere’s law in its integral form. [3 points]

2. Problem 5.33 (page 246). [3 points]

3. a) Uniformly charged disk of radius \( R \) (total charge \( Q \)) is rotating with angular velocity \( \omega \). Find the magnetic dipole moment. [2 points]

b) Same for a homogeneously charged spinning ball. [2 points]