Homework #6

Spring '20 Dr. Drake

- 1. Jackson 5.8
- 2. Jackson 5.10(a). In part (c) calculate the components of **B** as requested. Don't evaluate **B** along the z axis as requested. Instead, take the limit z = 0, show that $B_{\rho} = 0$ and evaluate B_z for $\rho = a \epsilon$ with ϵ small. In this limit you can complete the integral over k. Show that the integral diverges as ϵ goes to zero. Interpret the latter.