

PHY152 – Practice Problem Set #3
Winter 2019

All questions are taken from Wolfson, *Essential University Physics*, 3rd Ed.

1. Wolfson 20.65
2. Wolfson 20.73
3. Wolfson 20.79

Note that:

$$\int \frac{1}{(x+a)^{3/2}} dx = -2(x+a)^{-1/2}$$

$$\int \frac{x}{(x^2+a^2)^{3/2}} dx = -(x^2+a^2)^{-1/2}$$