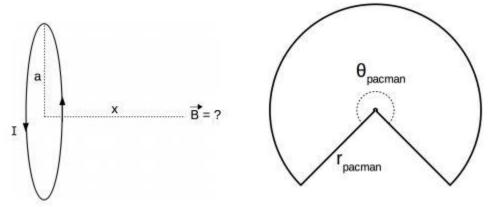
Andrea Tuggle
Lab 7

19. Biot-Savart Law
05/02/2019
Physics II
Dr. Harrison

1. OBJECTIVE

In this lab we are building a conical shape model to represent the magnetic field produced by a circular loop of current. By creating this model, we will be demonstrating Biot-Savart's Law.

2. DATA



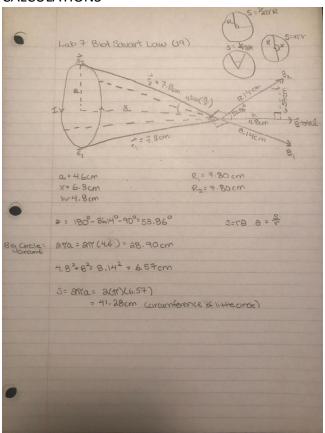
Formula: Biot-Savart Law, $dB=\frac{\mu_0}{4\pi}\frac{Id\bar{s}\times\bar{r}}{r^2}$

a=4.6 cm

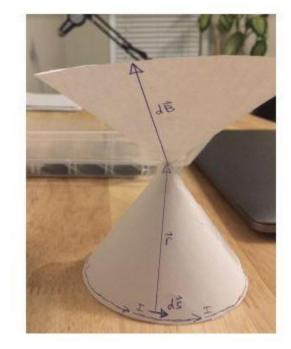
x=6.3 cm

h=4.8 cm

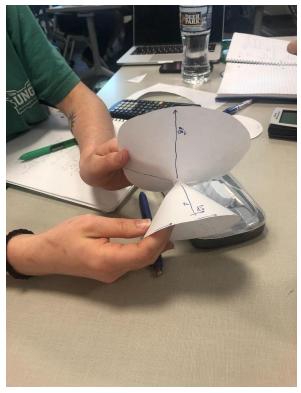
3. CALCULATIONS



4. RESULTS



(cone prototype from lab)



(cone recreated during lab)