Dylan Thornburg ELEN 120 Prelab 7

1. Write a 1-3 sentence description of each deliverable in Lab 7.

Deliverable one asks for our code and a video of the red led turning on when the potentiometer reading is high (>2048) enough.

Deliverable two is our code and a picture of the 600hz sine wave.

Deliverable three is just explaining what happens when we change sintbl to sawtbl (sin to saw wave) and then taking a picture.

Deliverable four is submitting our code and taking a video once we alter our code so that PA1 acts as volume control.

2. Determine what value will be returned by the A/D converter when the input from the potentiometer is exactly 1.5V.

    It should be 2047

3. If the sample output rate is 20KHz, and the sine-wave output frequency is 600Hz, how much does the phase (in radians) need to be incremented for each sample?

    It needs to be adjusted by 600(2pi)/20000 or 3pi/50 or ~.1884956