

**Problem Set #1**  
MACS 30000, Dr. Evans  
Charlie Walker

**Problem 1** You could put some description here, or you could just list your answer.  
**Part (a).** Put your answer to part (a) here. You might also need to include an equation.

$$\Omega_{j,t} = \left( \frac{\int_{m=4}^{\infty} (2t + 7m) dm}{\sum_{x=1}^2 3 \sin(\theta_{j,x})} \right) + 7$$

You could refer to that object from the equation in math mode  $\Omega_{j,t}$  in the sentence. Or if you wanted to talk about the equation, you could remove the asterisks, give it a label, and refer to it with references.

$$\Omega_{j,t} = \left( \frac{\int_{m=4}^{\infty} (2t + 7m) dm}{\sum_{x=1}^2 3 \sin(\theta_{j,x})} \right) + 7 \tag{1}$$

Look how cool equation (??) is.  
You might want to include a table in your `LATEX` document. For this, you use the `tabular` environment. Lastly, you can add figures to your document. Just make sure

**Table 1: Sweet example table**

Degrees	Time to completion	happiness (1-10)	added value (1-10)
High school diploma	3.9 years	5	2
Bachelor’s degree	3.8 years	7	5
Master’s degree	1.7 years	8	4
PhD	5.7 years	3	7

\* With this `threeparttable` environment, you can add nice subtext to a table.

that the reference to the figure has the right file path. Figure ?? is pretty nice. But, ideally, you would have something better than a pencil drawing. But you can just place any `.png` file into the `includegraphics` command.

Figure 1: Great example figure

