ECE 147B Lab n Report Template

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1 Abstract

The abstract should clearly summarize *all* sections. Refer to sections like this: section 3. Refer to subsections like this: subsection 4.1.

2 Introduction

The introduction is simply a more detailed version of the abstract.

3 Pre-Lab Exercises

3.1 Week 1

Probably some boring math here...

3.2 Week 2

and here as well. Align equations with equal signs like this:

$$1 = 1$$
$$2 = 2$$

If desired, enumerate steps like this:

1. Justify your answer; answers with no explanation will receive no credit.
   (a) Is the system $y(t) = \int_0^{t+1} x(\tau - 1)d\tau$ causal?
   (b) Is the system $y(t) = tx(t^2)$ linear?
2. Consider the differential equation $y'' + y = x$.
   (a) Determine the corresponding transfer function.
   (b) Determine the state-space representation of the system.

This style of enumeration may be used throughout the report.

4 Procedure

4.1 Week 1

Code-style text can be written like this: `rlocfind`. Refer to figures like this: Figure 1. All figures must be in the `figs` directory.

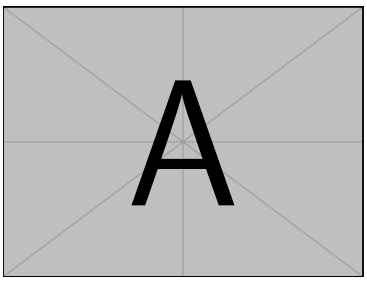


Figure 1: Example figure with a single graphic. It should usually be bigger (around `0.6\linewidth`).

Refer to code fragments like this: Code Fragment 1.

```
s = tf('s');
G = (s^4+3*s^2+2)/(6*s+9);
figure;
margin(G);
```

Code Fragment 1: Example code fragment.

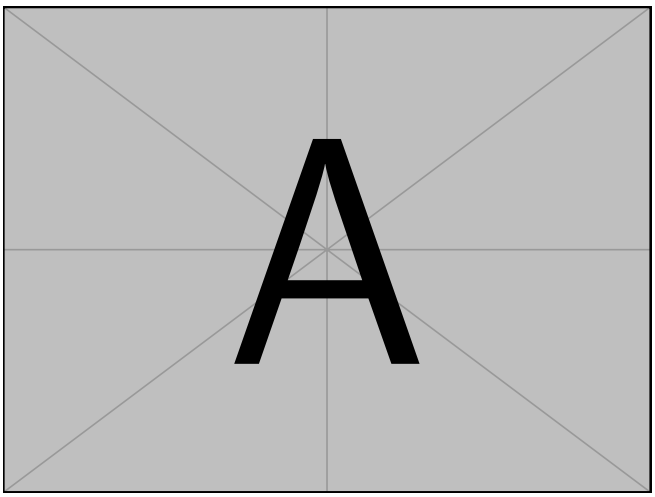
4.2 Week 2

Rest of the procedure goes here.

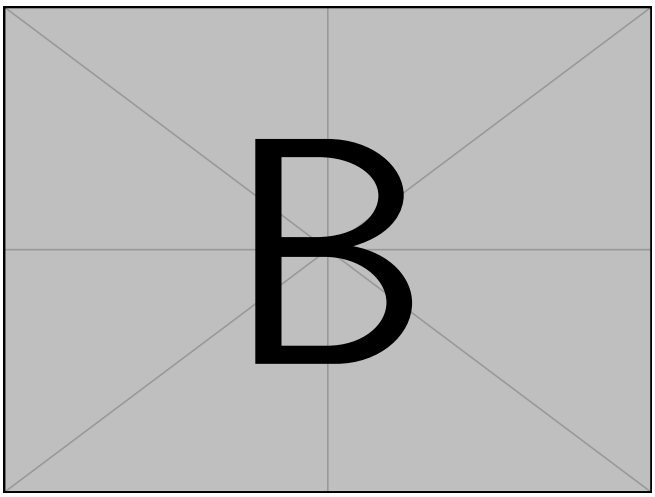
5 Results

5.1 Week 1

Below is a crucial example of a figure with multiple graphics, each in its own subfigure:



(a) Subfigure (a)



(b) Subfigure (b)

Figure 2: Example figure with two graphics, each in its own subfigure.

Refer to the overall figure as before: Figure 2. Refer to each subfigure like this: Figure 2a, Figure 2b.

5.2 Week 2

Probably many, many more plots here...

6 Discussion

6.1 Week 1

This is the part where you turn off your brain and ask ChatGPT to explain your results.

6.2 Week 2

Here as well. And you're done!