# Midterm 1

#### Your Name MATH 87 Math Modeling

September 20, 2022

This should be typed as a report, but I'll put some useful things in here for you to consider.

# 1 Here's how you make a section

### 2 Introduction

#### 2.1 Here's how you make a subsection

here's one way to make a network diagram, but tikz can be tricky, so you don't have to do it this way.

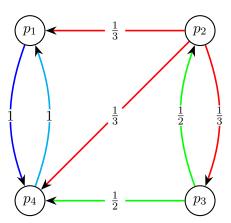


Figure 1: caption for the diagram

Here's how you make a matrix

$$T = \begin{bmatrix} 0 & \frac{1}{3} & 0 & 1\\ 0 & 0 & \frac{1}{2} & 0\\ 0 & \frac{1}{3} & 0 & 0\\ 1 & \frac{1}{3} & \frac{1}{2} & 0 \end{bmatrix}$$

You an write a linear program like this

$$\max f(x,y) = your function \quad \text{s.t.}$$
 
$$constraint1 \leq value1$$
 
$$constraint2 \leq value2$$
 
$$constraint3 \leq value3$$

•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•

Table 1: Caption for the table  $\,$ 

This is how you include the code: include numpy as np

a=b