MAT223 – Linear Algebra I – Winter 2023

Written Assignment 3

Due Tuesday 7 March at 9pm on Crowdmark

1 Notes and instructions

- This assignment contains five problems.
- Begin the process of submitting your solutions early. **Late assignments will receive a grade of 0**, and we will not make exceptions to this, especially if you began submitting your assignment minutes before the deadline.
- Organize your solutions neatly and write clearly/legibly. If we can't read your submission, then it won't get any points.
- Explain your solutions to each problem clearly. Your goal with this and any other assignment is to **communicate your answers and your reasoning for why they are correct as clearly as possible to the reader**.

2 Problems

1. Let A be the matrix given below, in which a and b are real numbers.

$$A = \begin{bmatrix} 1 & 0 & 0 & b \\ 0 & a & a & 0 \\ 0 & 0 & a & 0 \\ \end{bmatrix}$$