University of Toronto Scarborough MATA35: Calculus II for Biological Sciences Assignment 2

Due at the beginning of tutorial on May 24

Instructions for hand-in assignments:

- 1. Print this cover page, fill it out entirely, sign at the bottom, and STAPLE it to the front of your assignment answer sheets. **Doing this correctly is worth 1 mark.**
- 2. Submit your assignments ONLY in the tutorial in which you are enrolled.
- 3. Please double-check your tutorial code on blackboard, and your TA's name on the course syllabus. If there is a discrepancy between Blackboard and ROSI/ACORN, then your correct tutorial is the one on Blackboard, not on ROSI/ACORN.

Last name:	
First name:	
Student number:	
Tutorial code:	
TA name:	
Solving a mathematical assignment has 1. The discovery phase. This is the till lems, and it often takes most of the time other students in this phase. Collaborate done in real life. 2. The write-up phase. This consists	ime you spent trying to figure out how to solve the prob- ne. You are welcome and encouraged to collaborate with tion is a healthy practice, and this is how mathematics is as of writing your solutions once you have an idea of how
your solutions. If you collaborate on this else, or you have notes written by someb	d do this entirely by yourself. Be alone when you write s part, or you copy part of your solutions from somebody body else in front of you when you write your solutions, or in collaboration with somebody else, you are engaging in
· ·	demic integrity very seriously. We are obligated to report OSAI. Please do not force us to do so. Please SIGN below tood the instructions on collaboration.
Signature:	Date:
	1

1.[5 pts] Evaluate the following integral.

$$\int \frac{1}{x^2 + 2x - 3} dx$$

Let

$$\mathbf{A} = \begin{bmatrix} 2 & 5 \\ 0 & \pi \end{bmatrix}, \mathbf{B} = \begin{bmatrix} 2 & 8 \\ \sqrt{2} & 1 \end{bmatrix}$$

2.[3 pts] Compute $\mathbf{A} + \mathbf{B}$, $\mathbf{A} - \mathbf{B}$, $2\mathbf{A}$.

3.[2 pts] Compute **AB**, **BA**.