

Chapter 3.6

Linear Algebra with applications to differential equations

College of the Atlantic. Winter 2019

1. (Re)introduce yourself to your partners and briefly share what has been your favorite non-math class in hs or college so far.
2. Find the determinant of each of the following matrices:

$$A = \begin{bmatrix} -1 & 0 & 1 \\ 2 & 0 & -6 \\ 1 & 0 & 5 \end{bmatrix}, \quad (1)$$

$$A = \begin{bmatrix} 0 & 2 & 2 \\ 1 & 0 & 2 \\ 1 & 1 & 0 \end{bmatrix}, \quad (2)$$

$$A = \begin{bmatrix} 1 & 1 & 1 \\ 2 & 2 & 1 \\ 1 & 3 & 1 \end{bmatrix}, \quad (3)$$

$$A = \begin{bmatrix} 1 & 1 & 4 \\ 2 & 2 & 4 \\ 1 & 3 & 4 \end{bmatrix}, \quad (4)$$

$$A = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 3 & 1 \\ 2 & 2 & 1 \end{bmatrix}. \quad (5)$$