

3.1, 3.2 and 3.3 Handwrite Practice

Handwrite your responses to 1. and 2. below and collate them into a PDF for submission in ASULearn.

1. Given
$$\begin{bmatrix} 3 & 0 & 4 \\ 2 & 3 & 2 \\ 0 & 5 & -1 \end{bmatrix}$$

- a) Compute the determinant by hand using the cofactor expansion (also called the Laplace expansion) along the first row and show work.
- b) Compute the determinant by hand using the cofactor expansion (also called the Laplace expansion) along the second column and show work.
- c) Compare your responses.

2. Sketch a parallelepiped and shade the absolute value (or magnitude) of the determinant of the matrix formed by 3 vectors generating it.