

1. You are given 2 vectors VA: [1,2] and VB: [3,7].

(a) What is the result of VA + VB?

(b) What is the length or magnitude of VA?

2. You are given 2 matrices:

$$A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$$

$$B = \begin{bmatrix} -2 & 1 \\ 1 & 4 \end{bmatrix}$$

(a) What is C = A x B?

(b) What is the result of VA x A? That is:

$$[1 \ 2] \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix} =$$

(c) What is the determinant of B?