

# Problem 6 (20 points)

6. (20 points) Consider the map

(a) The points  $A, B, C$  are given by

$$A = \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix}, B = \begin{pmatrix} 2 \\ 3 \\ 4 \end{pmatrix}, C = \begin{pmatrix} 3 \\ 4 \\ 5 \end{pmatrix} \text{ where } x, y, z \in \mathbb{R}.$$

Consider the  $\Delta ABC \subset \mathbb{R}^3$ . Determine the volume of  $\Delta ABC$ .

(2 points)

(b) A linear transformation is represented by the matrix  $T = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$ .

(i) What does  $T \begin{pmatrix} 1 \\ 1 \end{pmatrix}$ ?

(2 points)

(ii) Find

$$(a) \quad T \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$(b) \quad T \begin{pmatrix} 0 \\ 1 \end{pmatrix}$$

(2 points)

(c) Show that the equation  $T^2 \mathbf{x} = \mathbf{0}$  has two linearly independent solutions.

(2 points)

(d) The origin is an invariant point under the transformation  $T$ . How many invariant (i.e. fixed) points does  $T$  have?

(2 points)

This problem continues on the following page.

# M13 Matme Speng Tz

**Liyong Dong**



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