

# Problem 10

Let  $\mathbb{R}^2$  be the real plane.

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

$$A = \begin{pmatrix} 1 \\ 2 \end{pmatrix}, B = \begin{pmatrix} 3 \\ 1 \end{pmatrix}, C = \begin{pmatrix} 2 \\ 3 \end{pmatrix} \text{ where } \begin{pmatrix} x \\ y \end{pmatrix} \text{ means } (x, y) \in \mathbb{R}^2.$$

Consider  $\mathcal{AB} = A \rightarrow B$  (the directed line segment from  $A$  to  $B$ ).

(10 marks)

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

(i) Write down  $T \begin{pmatrix} 1 \\ 1 \end{pmatrix}$ .

(2 marks)

(ii) Find

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

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

(2 marks)

(c) Show that the equations of  $\mathcal{AB}$  and line  $\mathcal{BC}$  satisfy one equation of the form  $ax + by = c$ .

(2 marks)

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

(2 marks)

This question continues on the following page.

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**Mike Jess**



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