

3.

$$\mathbf{P} = \begin{pmatrix} 3 & 3 \\ 4 & 7 \end{pmatrix}$$

The matrix \mathbf{P} represents a linear transformation, T , of the plane.

(a) Describe the invariant points of the transformation T .

(3)

(b) Describe the invariant lines of the transformation T .

(6)