

INVARIANT POINTS AND LINES

Exercise 1: Find the invariant points under the transformation given by the matrix $\begin{pmatrix} 4 & 5 \\ 1 & 2 \end{pmatrix}$

Exercise 2: Find the invariant points under the transformation given by the matrix $\begin{pmatrix} 1 & 4 \\ 7 & 3 \end{pmatrix}$

Exercise 3: Find the invariant points under the transformation given by the matrix $\begin{pmatrix} 5 & 1 \\ 8 & 3 \end{pmatrix}$

Exercise 4: a) Identify the lines on the following diagrams that are invariant lines

b) Define the general form of the invariant lines in the following diagrams

