

Invariant Lines

For each transformation matrix, find the equations of any invariant lines.

(a)	(b)	(c)	(d)
$\begin{pmatrix} -1 & 1 \\ 10 & 2 \end{pmatrix}$	$\begin{pmatrix} 0 & 1 \\ -3 & 4 \end{pmatrix}$	$\begin{pmatrix} -4 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} 5 & 2 \\ 4 & 3 \end{pmatrix}$
(e)	(f)	(g)	(h)
$\begin{pmatrix} 2 & 3 \\ 4 & -9 \end{pmatrix}$	$\begin{pmatrix} 7 & 1 \\ -5 & 6 \end{pmatrix}$	$\begin{pmatrix} 2 & 1 \\ 0 & 3 \end{pmatrix}$	$\begin{pmatrix} 7 & 9 \\ 4 & 7 \end{pmatrix}$