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| **Invariant Lines** |
| For each transformation matrix, find the equations of any invariant lines. |
| **(a)** | **(b)** | **(c)** | **(d)** |
| $$\left(\begin{matrix}-1&1\\10&2\end{matrix}\right)$$ | $$\left(\begin{matrix}0&1\\-3&4\end{matrix}\right)$$ | $$\left(\begin{matrix}-4&0\\0&1\end{matrix}\right)$$ | $$\left(\begin{matrix}5&2\\4&3\end{matrix}\right)$$ |
| **(e)** | **(f)** | **(g)** | **(h)** |
| $$\left(\begin{matrix}2&3\\4&-9\end{matrix}\right)$$ | $$\left(\begin{matrix}7&1\\-5&6\end{matrix}\right)$$ | $$\left(\begin{matrix}2&1\\0&3\end{matrix}\right)$$ | $$\left(\begin{matrix}7&9\\4&7\end{matrix}\right)$$ |