

$$P = \left\{ \left[\frac{ab}{aba} \right], \left[\frac{aa}{aba} \right], \left[\frac{ba}{aa} \right], \left[\frac{abab}{b} \right] \right\}$$

Match:

$$\left| \begin{array}{cc} a & b \\ a & b \end{array} \right| \begin{array}{c} a \\ a \end{array} \left| \begin{array}{cc} a & a \\ a & b \end{array} \right| \begin{array}{c} b \\ a \end{array} \left| \begin{array}{cc} a & a \\ a & a \end{array} \right| \begin{array}{cc} a & b \\ a & b \end{array} \left| \begin{array}{cc} a & a \\ a & a \end{array} \right| \left| \begin{array}{c} b \\ b \end{array} \right|$$