a)
$$\frac{100}{000}$$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ \frac{1}{12} & \frac{1}{12} & 0 \\ \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0 & 1 \end{vmatrix}$
 $A = \begin{vmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ 0 & 0$

C) since rank is fell— bijective $\begin{pmatrix}
\frac{1}{12} & \frac{1}{12} & 0 & | 1 & 0 & 0 \\
\frac{1}{12} & \frac{1}{12} & 0 & | 0 & 0 & | 1 & | 1 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 & | 0 &$

6.7

$$A = \begin{pmatrix} 723 \\ 459 \\ 7875 \end{pmatrix} \rightarrow \begin{pmatrix} 723 \\ 0-6-6 \end{pmatrix} \rightarrow \begin{pmatrix} 723 \\ 0-6-6 \end{pmatrix} \rightarrow \begin{pmatrix} 723 \\ 0-00 \end{pmatrix} \rightarrow \begin{pmatrix} 723 \\ 0-11 \\ 0-00 \end{pmatrix} \rightarrow \begin{pmatrix} 723 \\ 0-11 \\ 0-11 \end{pmatrix} \rightarrow \begin{pmatrix} 723 \\ 0-11 \\ 0-11 \end{pmatrix} \rightarrow \begin{pmatrix} 723 \\ 11 \\ 11 \end{pmatrix} \rightarrow \begin{pmatrix} 723 \\ 11 \end{pmatrix}$$

$$\frac{\pi}{0} = \frac{\pi}{0} = \frac{\pi$$