VD 7.6.1
Find the inverse matrix for the following matrices

$\begin{pmatrix} 1 & 0 & 2 \\ 0 & 1 & 4 \\ 2 & 0 & 1 \end{pmatrix}$	$\begin{pmatrix} -\frac{1}{3} & 0 & \frac{2}{3} \\ -\frac{8}{3} & 1 & \frac{4}{3} \\ \frac{2}{3} & 0 & -\frac{1}{3} \end{pmatrix}$
$\begin{pmatrix} 3 & 0 & 1 \\ -1 & 2 & 1 \\ -2 & 3 & 1 \end{pmatrix}$	$\begin{pmatrix} \frac{1}{2} & -\frac{3}{2} & 1 \\ \frac{1}{2} & -\frac{5}{2} & 2 \\ -\frac{1}{2} & \frac{9}{2} & -3 \end{pmatrix}$
$\begin{pmatrix} 1 & 1 & 0 \\ 3 & 0 & 1 \\ -1 & 2 & 1 \end{pmatrix}$	$\begin{pmatrix} \frac{1}{3} & \frac{1}{6} & -\frac{1}{6} \\ \frac{2}{3} & -\frac{1}{6} & \frac{1}{6} \\ -1 & \frac{1}{2} & \frac{1}{2} \end{pmatrix}$
$\begin{pmatrix} 1 & 1 & 2 \\ 3 & 0 & 4 \\ -2 & 3 & 7 \end{pmatrix}$	$\begin{pmatrix} \frac{12}{23} & \frac{1}{23} & -\frac{4}{23} \\ \frac{29}{23} & -\frac{11}{23} & -\frac{2}{23} \\ -\frac{9}{23} & \frac{5}{23} & \frac{3}{23} \end{pmatrix}$
$\begin{pmatrix} 3 & 0 & 4 \\ -1 & 2 & 0 \\ -2 & 3 & 7 \end{pmatrix}$	$\begin{pmatrix} \frac{7}{23} & \frac{6}{23} & -\frac{4}{23} \\ \frac{7}{46} & \frac{29}{46} & -\frac{2}{23} \\ \frac{1}{46} & -\frac{9}{46} & \frac{3}{23} \end{pmatrix}$
$\begin{pmatrix} 1 & 1 & 2 \\ -1 & 2 & 0 \\ -2 & 3 & 7 \end{pmatrix}$	$\begin{pmatrix} \frac{14}{23} & -\frac{1}{23} & -\frac{4}{23} \\ \frac{7}{23} & \frac{11}{23} & -\frac{2}{23} \\ \frac{1}{23} & -\frac{5}{23} & \frac{3}{23} \end{pmatrix}$

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$\begin{pmatrix} 1 & 1 & 2 \\ -2 & 3 & 7 \\ 3 & 0 & 4 \end{pmatrix}$	$\begin{pmatrix} \frac{12}{23} & -\frac{4}{23} & \frac{1}{23} \\ \frac{29}{23} & -\frac{2}{23} & -\frac{11}{23} \\ -\frac{9}{23} & \frac{5}{23} & \frac{3}{23} \end{pmatrix}$