## 線形代数 A 実習課題第 6 回

名前: 長田悠生 学籍番号: 202310330

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IATEX

1.

$$R_{n}\left(i,j\right)=Q_{n}\left(j;2\right)P_{n}\left(i,j;1\right)Q_{n}\left(j;\frac{1}{2}\right)P_{n}\left(j,i;1\right)P_{n}\left(j,i;-\frac{3}{2}\right)Q_{n}\left(j;-2\right)P_{n}\left(j,i;1\right)Q_{n}\left(i;\frac{1}{2}\right)$$

$$(1) \quad \begin{pmatrix} 1 & 0 & -2 & 0 \\ 0 & 2 & -2 & 1 \\ 0 & 0 & 0 & 0 \end{pmatrix} \quad \text{\texttt{B$\underline{$\psi$}$}} : 2$$

$$(2) \quad \begin{pmatrix} \frac{1}{2} & 1 & \frac{3}{2} & -1\\ 0 & -3 & -3 & 4\\ 0 & 0 & -\frac{7}{2} & -\frac{2}{3}\\ 0 & 0 & 0 & 0 \end{pmatrix} \quad \text{Figure 3}$$

$$\begin{pmatrix}
4 & -7 & 6 & 1 \\
0 & \frac{7}{4} & \frac{7}{2} & \frac{7}{4} \\
0 & 0 & -\frac{23}{6} & 0 \\
0 & 0 & 0 & 0
\end{pmatrix}$$

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3.

$$(1) \quad \begin{pmatrix} 1 & 0 & \frac{11}{7} & \frac{11}{7} \\ 0 & 1 & -\frac{1}{7} & -\frac{2}{7} \end{pmatrix}$$

$$(2) \quad \begin{pmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix}$$

$$\begin{array}{ccccc}
(1) & \begin{pmatrix} 1 & 0 & \frac{11}{7} & \frac{11}{7} \\ 0 & 1 & -\frac{1}{7} & -\frac{2}{7} \end{pmatrix} \\
(2) & \begin{pmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix} \\
(3) & \begin{pmatrix} 1 & 0 & 1 & -1 \\ 0 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 \end{pmatrix}$$