2)
$$\begin{bmatrix} 0 & 0 & 0 \\ 1 & 0 & 1 \\ 0 & 0 & 0 \end{bmatrix}$$

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$$\frac{3}{2} \det \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix} = (-\lambda)^{3} + 8 \qquad \lambda^{3} = 8$$

$$\frac{2}{2} e^{-1+13i} = \frac{2}{2} e^{-1+13i}$$

$$\frac{1}{2} e^{-1} e^{-1} e^{-1} e^{-1}$$

$$\frac{1}{2} e^{-1} e^{-1} e^{-1}$$

$$\frac{1}{2} e^{-1}$$

2.100.
$$A = \begin{bmatrix} z & 0 & 0 \\ 0 & 1 & 7 \\ 0 & 7 & 4 \end{bmatrix} = 2P_1 + 3P_2$$

$$I = \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} = P_1 + P_2 \quad /(-2)$$

$$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 7 & 2 \\ 0 & 1 & 2 \end{bmatrix} = P_2 \qquad P_1 = \begin{bmatrix} 1 & 0 & 0 & 7 \\ 0 & 1 & -1 \\ 0 & 1 & -1 \end{bmatrix}$$

$$8 \quad A = QR \qquad QR \quad x = b \longrightarrow \qquad Rx = Q$$

$$\begin{array}{ccc}
8 & A = Q R & Q R \times = b \longrightarrow & R_{x} = Q^{T}b \\
R \times = Q^{T}b & & \\
\begin{pmatrix} 2 \times 4 \\ 3 & 4 \end{pmatrix} \times = \begin{pmatrix} 2 \\ 0 \\ 0 \end{pmatrix}$$