$$\frac{3/3}{0 \cdot 10} \begin{pmatrix} 100 \\ 010 \\ 001 \\ -201 \end{pmatrix} \qquad \therefore A^{-1} = \begin{pmatrix} 2 & -1 & 0 \\ 2 & 2 & -1 \\ 2 & 0 & 1 \end{pmatrix}$$