$$\det(\mathcal{R}) = c^2 + s^2 = \boxed{1}$$

$$\mathcal{R} = \begin{bmatrix} c & -s \\ s & c \end{bmatrix} \qquad \mathcal{R}' = \frac{1}{\det(\mathcal{R})} C(\mathcal{R}) = \frac{1}{1} \begin{bmatrix} c & s \\ -s & c \end{bmatrix} = \mathcal{R}^T$$

$$C(\mathcal{R}) = \begin{bmatrix} c & s \\ -s & c \end{bmatrix} \Rightarrow C(\mathcal{R})^{T} = \begin{bmatrix} c & -s \\ s & c \end{bmatrix}$$

$$\det(\mathcal{R}) = \det(\mathcal{R}) = c^{2} + s^{2} = \boxed{1}$$

$$R = \begin{bmatrix} c & -s \\ s & c \end{bmatrix} \qquad R^{T} = \begin{bmatrix} c & s \\ -s & c \end{bmatrix}$$

$$\begin{bmatrix} -S \\ C \end{bmatrix} = \begin{bmatrix} C \\ -S \end{bmatrix}$$

$$R = \begin{bmatrix} \sqrt{2} & \sqrt{2} \\ -\sqrt{2} & \sqrt{2} \\ -\sqrt{2} & \sqrt{2} \end{bmatrix} = R_{45} = \begin{bmatrix} \sqrt{2} & \sqrt{2} \\ -\sqrt{2} & \sqrt{2} \\ -\sqrt{2} & \sqrt{2} \end{bmatrix} \Rightarrow Truc$$

$$R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_{60} \end{bmatrix} R = \begin{bmatrix} C_{60} & -S_{60} \\ S_{60} & S_$$

$$\left[\left(sc - cs \right) \left(s^2 + \iota^2 \right) \right] = \left[0$$

$$\Rightarrow \left(Truc \right)$$

$$\cos(x) = \cos(-x)$$

$$\frac{(cs-sc)}{(s)} = \frac{1}{(s)} = \frac{1}{(s)}$$

