$$\frac{2015 \text{P2Q6} (\text{II})}{\text{S}} = \frac{1}{2} \left(\begin{array}{c} \chi_{1}^{2} \\ \chi_{1}^{2} + \chi_{1} \chi_{2} + \chi_{2}^{2} \\ \chi_{1}^{2} + \chi_{1} \chi_{2} + \chi_{2}^{2} \\ \chi_{1}^{2} + \chi_{1} \chi_{2} + \chi_{2}^{2} \\ \chi_{1}^{2} + \chi_{1} \chi_{2} - \chi_{2}^{2} \\ \chi_{1}^{2} + \chi_{1} \chi_{2} - \chi_{2}^{2} \\ \chi_{1}^{2} + \chi_{1} \chi_{2} - \chi_{2}^{2} \\ \chi_{1}^{2} - \chi_{1}^{2} + \chi_{1}^{2} \chi_{2}^{2} - \chi_{1} + \chi_{2}^{2} \right) + \left(\begin{array}{c} \chi_{1}^{2} \\ \chi_{1}^{2} + \chi_{1} \chi_{2} - \chi_{2}^{2} \\ \chi_{1}^{2} - \chi_{1}^{2} + \chi_{2}^{2} \end{array} \right) + \left(\begin{array}{c} \chi_{1}^{2} \\ \chi_{1}^{2} + \chi_{1} \chi_{2} - \chi_{2}^{2} \\ \chi_{1}^{2} - \chi_{1}^{2} + \chi_{2}^{2} \end{array} \right) + \left(\begin{array}{c} \chi_{1}^{2} \\ \chi_{1}^{2} - \chi_{1}^{2} + \chi_{2}^{2} \end{array} \right) + \left(\begin{array}{c} \chi_{1}^{2} + \chi_{1}^{2} \\ \chi_{1}^{2} - \chi_{1}^{2} + \chi_{2}^{2} \end{array} \right) + \left(\begin{array}{c} \chi_{1}^{2} + \chi_{1}^{2} \\ \chi_{1}^{2} - \chi_{1}^{2} - \chi_{1}^{2} - \chi_{1}^{2} - \chi_{1}^{2} - \chi_{1}^{2} \\ \chi_{1}^{2} - \chi_$$

2015 P206(II)
$$Se_{z} = A_{z}e_{3}$$
 $(x_{1}^{2}x_{1}x_{2}) = (x_{1}^{2}x_{1}x_{2}^{2}) \begin{pmatrix} \eta \\ \eta \\ \chi_{1}x_{2} & \chi_{2}^{2} & \chi_{2}^{2} \end{pmatrix} \begin{pmatrix} \eta \\ \eta \\ \chi_{1}x_{2} & \chi_{2}^{2} & \chi_{2}^{2} \end{pmatrix} \begin{pmatrix} \eta \\ \eta \\ \chi_{1}x_{2} & \chi_{2}^{2} & \chi_{2}^{2} \end{pmatrix} \begin{pmatrix} \eta \\ \chi_{1}x_{2} & \chi_{2}^{2} & \chi_{2}^{2} \end{pmatrix} \begin{pmatrix} \chi_{1}^{2} & \chi_{1}^{2} & \chi_{2}^{2} \\ \chi_{1}^{2} & \chi_{2}^{2} & \chi_{2}^{2} & \chi_{2}^{2} \end{pmatrix} \begin{pmatrix} \chi_{1}^{2} & \chi_{2}^{2} & \chi_{2}^{2} \\ \chi_{1}^{2} & \chi_{2}^{2} & \chi_{2}^{2} & \chi_{2}^{2} & \chi_{2}^{2} \end{pmatrix} \begin{pmatrix} \chi_{1}^{2} & \chi_{2}^{2} & \chi_{2}^{2} \\ \chi_{1}^{2} & \chi_{2}^{2} & \chi_{2}^{2} & \chi_{2}^{2} & \chi_{2}^{2} \end{pmatrix} \begin{pmatrix} \chi_{1}^{2} & \chi_{2}^{2} & \chi_{1}^{2} & \chi_{2}^{2} \\ \chi_{1}^{2} & \chi_{2}^{2} & \chi_{2}^{2} & \chi_{2}^{2} & \chi_{2}^{2} & \chi_{2}^{2} \end{pmatrix} \begin{pmatrix} \chi_{1}^{2} & \chi_{1}^{2} & \chi_{1}^{2} & \chi_{2}^{2} \\ \chi_{1}^{2} & \chi_{2}^{2} & \chi_{1}^{2} & \chi_{2}^{2} & \chi_{1}^{2} & \chi_{2}^{2} \end{pmatrix} \begin{pmatrix} \chi_{1}^{2} & \chi_{1}^{2} & \chi_{1}^{2} & \chi_{1}^{2} & \chi_{1}^{2} & \chi_{1}^{2} \\ \chi_{1}^{2} & \chi_{1}^{2} \\ \chi_{1}^{2} & \chi_{1}^{2}$

2015 PZQ6 IV TRANSFORMATION WATRIX Miz? $\begin{pmatrix}
0 \\
0 \\
1
\end{pmatrix}
\begin{pmatrix}
-\frac{x_2}{x_1} \\
\frac{x_2}{x_2} \\
1 \\
0
\end{pmatrix} = \begin{pmatrix}
M_{11} & M_{12} & M_{13} \\
M_{21} & M_{22} & M_{23} \\
M_{31} & M_{32} & M_{33}
\end{pmatrix}
\begin{pmatrix}
1 \\
0 \\
0 \\
1
\end{pmatrix}$ SO IS M JUST (0 - \frac{\frac} PROBABLY NOT. | AM LIKELY TO BE MISTAKEN HERE $(d) F_{ij} = P J_{ij} + \hat{S}_{ij} + \hat{A}_{ij}$ $\hat{S} = S - \frac{T_R S}{3} I = \begin{pmatrix} \chi_1^2 & \chi_1 \chi_2 & 0 \\ \chi_1 \chi_2 & \chi_2^2 & 0 \\ 0 & 0 & 3(\chi_1^2 + \chi_2^2) \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_2 & \chi_2 & 0 \\ 0 & 0 & 3(\chi_1^2 + \chi_2^2) \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_2 & \chi_2 & 0 \\ 0 & 0 & 3(\chi_1^2 + \chi_2^2) \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_2 & \chi_2 & 0 \\ 0 & 0 & 3(\chi_1^2 + \chi_2^2) \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_2 & \chi_2 & 0 \\ 0 & 0 & 3(\chi_1^2 + \chi_2^2) \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_2 & \chi_2 & 0 \\ 0 & 0 & 3(\chi_1^2 + \chi_2^2) \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_2 & \chi_2 & 0 \\ 0 & 0 & 3(\chi_1^2 + \chi_2^2) \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_2 & \chi_2 & 0 \\ 0 & \chi_1 & \chi_2 & \chi_2 & 0 \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_1 & \chi_2 & \chi_2 & 0 \\ 0 & \chi_1 & \chi_2 & \chi_2 & 0 \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_1 & \chi_2 & \chi_2 & 0 \\ 0 & \chi_1 & \chi_2 & \chi_2 & 0 \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_1 & \chi_2 & \chi_2 & 0 \\ 0 & \chi_1 & \chi_2 & \chi_2 & 0 \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_1 & \chi_2 & \chi_2 & 0 \\ 0 & \chi_1 & \chi_2 & \chi_2 & \chi_2 & 0 \end{pmatrix} - \frac{4(\chi_1^2 + \chi_2^2)}{3} I = \begin{pmatrix} \chi_1 & \chi_1 & \chi_2 & \chi_2 & \chi_2 & 0 \\ 0 & \chi_1 & \chi_2 & \chi_2$ $= \left| \frac{1}{3} x_1^2 - \frac{4}{3} x_2^2 - \frac{4}{3} x_1^2 - \frac{1}{3} x_1^2 - \frac{1}{3}$ $P = \frac{4(x_1^2 + x_2^2)}{3} \qquad A_{1j} = \frac{1}{2} \left(F_{1j} - F_{ji} \right) = \begin{pmatrix} 0 & -x_1^2 - x_2^2 & x_1 - x_2 \\ x_1^2 + x_2^2 & 0 & -x_n - x_2 \end{pmatrix}$ CHECKING IF S HAS THE SAME PRINCIP. AXES AS tOUNT PREVIOUS LY: AS TOUNT PREVIOUS LY: (A)AS \$ \$0.000 PREVIOUS (Y: $\hat{S}(0) = \frac{5}{3}(\chi_{1}^{2} + \chi_{2}^{2})(0) \\
\hat{S}(0) = \frac{5}{3}(\chi_{1}^{2} + \chi_{2}^{2})$