Strassen's Matolx Multiplication

formula if-

formula:-

$$\begin{bmatrix}
Q = B_{11} (A_{21} + A_{22}) \\
R = A_{11} (B_{12} - B_{22})
\end{bmatrix}$$

$$\begin{bmatrix}
S = A_{22} (B_{21} - B_{11})
\end{bmatrix}$$

B11 A11 A22 B22

PRRSTUY

RAT

$$Q: A = \begin{bmatrix} 5 & 6 \\ -4 & 3 \end{bmatrix} \land B = \begin{bmatrix} -7 & 6 \\ 5 & 9 \end{bmatrix}$$

$$C_{21} = 0+5 = 7+36 = 43$$