

transpose{{1,3,5},{1,-4,1},{2,5,8}}*transpose{{1,1,1},{2,-1,3},{3,2,6}}

Input:

$$\begin{pmatrix} 1 & 3 & 5 \\ 1 & -4 & 1 \\ 2 & 5 & 8 \end{pmatrix}^T \cdot \begin{pmatrix} 1 & 1 & 1 \\ 2 & -1 & 3 \\ 3 & 2 & 6 \end{pmatrix}^T$$

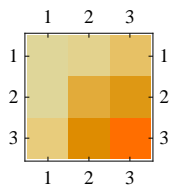
Result:

$$\begin{pmatrix} 4 & 7 & 17 \\ 4 & 25 & 31 \\ 14 & 33 & 65 \end{pmatrix}$$

Dimensions:

3 (rows) × 3 (columns)

Matrix plot:



Determinant:

-80

Wolfram|Alpha: transpose{{1,3,5},{1,-4,1},{2,5,8}}*transpose{{1,1,1},{2,-1,3},{3,2,6}}

Trace:

94

Condition number:

1282.4

Inverse:

$$\frac{1}{40} \begin{pmatrix} -301 & -53 & 104 \\ -87 & -11 & 28 \\ 109 & 17 & -36 \end{pmatrix}$$