Assignment

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18/5CIO1/063
$A=\left(\begin{array}{ccc}1 & 2 & 2 \\ 1 & -1 & 2 \\ 2 & 1 & -1\end{array}\right) \quad B\left(\begin{array}{lll}1 & 4 & 7 \\ 2 & 5 & 8 \\ 3 & 6 & 9\end{array}\right)\left(\begin{array}{lll}3 & 4 & 1 \\ 3 & 6 & 7 \\ 9 & 5 & 8\end{array}\right)$
)

$$
\text { if } x=\left(\begin{array}{l}
a \\
b \\
c
\end{array}\right)
$$

The linear tresuphatur of $A=$

$$
T \rightarrow A C x\left(\begin{array}{ccc}
1 & 2 & 2 \\
1 & -1 & 2 \\
2 & 1 & -1
\end{array}\right)\left(\begin{array}{l}
a \\
b \\
c
\end{array}\right)
$$

$$
\left(\begin{array}{ccc}
a & 2 b & 2 c \\
a & -b & 2 c \\
2 a & b & -c
\end{array}\right)
$$

$$
\begin{aligned}
& 2 B=\left(\begin{array}{lll}
1 & 4 & 7 \\
2 & 5 & 8 \\
3 & 6 & 9
\end{array}\right) C\left(\begin{array}{lll}
2 & 4 & 1 \\
3 & 6 & 7 \\
9 & 5 & 8
\end{array}\right) \\
& B+C=\left(\begin{array}{lll}
1+-2 & 4+4 & 7+1 \\
2+3 & 5+6 & 8+7 \\
3+9 & 6+5 & 818
\end{array}\right) \\
& B+C=\left(\begin{array}{lll}
3 & 8 & 8 \\
5 & 11 & 15 \\
12 & 11 & 17
\end{array}\right) \\
& \left.B+C^{\top}=\left(\begin{array}{lll}
3 & 5 & 12 \\
8 & 11 & 11 \\
8 & \text { Amfn }
\end{array}\right)^{17}\right)=\text { Bant }
\end{aligned}
$$



