Name:
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MATH 3306
Quiz 7.2
Consider the following matrices

$$
A=\left(\begin{array}{ccc}
1 & -1 & 3 \\
2 & 4 & -1
\end{array}\right), \quad B=\left(\begin{array}{ccc}
3 & 2 & 1 \\
0 & 1 & -3
\end{array}\right), \quad C=\left(\begin{array}{ccc}
2 & 1 & 2 \\
1 & 2 & 1 \\
3 & 0 & -1
\end{array}\right)
$$

(1) Find $3 A-B$ if it exists or explain why it does not exist.
(2) Find $C A^{T}$ if it exists or explain why it does not exist.
(3) Use technology to find $C^{-1}$, the inverse of matrix $C$ if it exists or explain why it does not exist.

