Problems

1. Let $A = \begin{bmatrix} 1 & 2 \\ 0 & 4 \end{bmatrix}$ $B = \begin{bmatrix} 2 & 1 \\ 3 & 1 \end{bmatrix}$ and $C = \begin{bmatrix} 3 \\ 5 \end{bmatrix}$ Then if possible do these following operations

   a) A + B

   b) 3A - 2C

   c) AC

   d) CA

Perform the following matrix operation if possible.

2. $\begin{bmatrix} 2 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 4 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 1 \end{bmatrix} =$

3. $\begin{bmatrix} 2 & 4 \\ 0 & -1 \end{bmatrix} \begin{bmatrix} 2 & 0 \\ 1 & -1 \end{bmatrix} =$

4. $\begin{bmatrix} 2 & 4 \\ 0 & -1 \end{bmatrix} + \begin{bmatrix} 1 & 0 & 0 \\ 3 & 1 & 0 \end{bmatrix} =$