

DoThis 5.4  
Matrix arithmetic

NAME:

Let  $A = \begin{bmatrix} 2 & 3 \\ -1 & 5 \end{bmatrix}$ ,  $B = \begin{bmatrix} 3 & -2 \\ 4 & 8 \end{bmatrix}$ , and  $C = \begin{bmatrix} 1 & -1 & 2 \\ 6 & 4 & 3 \end{bmatrix}$ .

Find the following. If an operation cannot be done, say so. Please do by hand but check on your calculator.

1. $A + B$	5. $C * A$
2. $4 * B$	6. $2 * A + B$
3. $A + C$	7. $2(A + B)$
4. $A * C$	8. $AB$