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Matrix Addition and Multiplication

Define the matrices

$$A = \begin{pmatrix} 2 & -1 & -1 \\ 1 & -1 & -1 \end{pmatrix}, \quad B = \begin{pmatrix} 4 & -2 & -1 \\ 2 & -4 & -2 \end{pmatrix}, \quad C = \begin{pmatrix} 1 & 2 \\ 2 & 1 \end{pmatrix}, \quad D = \begin{pmatrix} 3 & 4 \\ 4 & 3 \end{pmatrix}, \quad E = \begin{pmatrix} 1 \\ 2 \end{pmatrix}.$$

Compute if defined:

$$B - 2A, 3C - E, AC, CD, CB.$$

Note: Remember, you may check the solutions in the [lecture notes](#).

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