

Name _____ Score _____/10

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1. Two matrices are equal if they have the same **order** and corresponding **entries** are equal.

2. The order of the matrix $\begin{bmatrix} 1 & 3 & 2 & 3 \\ 2 & 1 & 1 & 5 \end{bmatrix}$ is **2×4**

3. Add $\begin{bmatrix} 1 & 4 & -2 \\ 3 & 0 & 5 \end{bmatrix} + \begin{bmatrix} 1 & 0 & 5 \\ -5 & 1 & -5 \end{bmatrix} = \begin{bmatrix} 2 & 4 & 3 \\ -2 & 1 & 0 \end{bmatrix}$

4. Multiply $\begin{bmatrix} 2 & 0 & 1 \\ 3 & 2 & -1 \end{bmatrix} \begin{bmatrix} 1 & 2 \\ 3 & -1 \\ -3 & 2 \end{bmatrix} = \begin{bmatrix} -1 & 6 \\ 12 & 2 \end{bmatrix}$

5. Compute the scalar product $4 \begin{bmatrix} 2 & 1 \\ 5 & 3 \end{bmatrix} = \begin{bmatrix} 8 & 4 \\ 20 & 12 \end{bmatrix}$