

Let A and B be the following matrices.

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

Perform the following operation:

$$B \cdot A = \begin{bmatrix} \boxed{} & \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} & \boxed{} \end{bmatrix}$$

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Perform the following operation:

$$B \cdot A = \begin{bmatrix} \boxed{5} & \boxed{6} & \boxed{-8} & \boxed{-4} \\ \boxed{10} & \boxed{12} & \boxed{-16} & \boxed{-8} \\ \boxed{20} & \boxed{24} & \boxed{-32} & \boxed{-16} \\ \boxed{-25} & \boxed{-30} & \boxed{40} & \boxed{20} \end{bmatrix}$$