Matrix Multiplication

Name:

Date:

simplify.

1) $\begin{bmatrix} 0 & 2 \\ -2 & 5 \end{bmatrix} \times \begin{bmatrix} 6 & -6 \\ 0 & 3 \end{bmatrix} =$

2) $\begin{bmatrix} 2 \\ 5 \\ -3 \end{bmatrix} \times [-2] =$

3) $\begin{bmatrix} -1 & -2 \\ 3 & 0 \\ 8 & 9 \end{bmatrix} \times \begin{bmatrix} 0 & 2 \\ -2 & 5 \end{bmatrix} =$

4) $\begin{bmatrix} -1 & 2 & 0 \\ -5 & 8 & 9 \end{bmatrix} \times \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix} =$

5) $\begin{bmatrix} -2 \\ 4 \\ 3 \end{bmatrix} \times [-1 \quad 0] =$

6) $\begin{bmatrix} 8 & 9 \\ -6 & -5 \\ 2 & 4 \end{bmatrix} \times \begin{bmatrix} 4 \\ 1 \end{bmatrix} =$

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QUIZ ?

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Matrix Multiplication

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Answers

simplify.

1) $\begin{bmatrix} 0 & 2 \\ -2 & 5 \end{bmatrix} \times \begin{bmatrix} 6 & -6 \\ 0 & 3 \end{bmatrix} = \begin{bmatrix} 0 & 6 \\ -12 & 27 \end{bmatrix}$

2) $\begin{bmatrix} 2 \\ 5 \\ -3 \end{bmatrix} \times \begin{bmatrix} -2 \end{bmatrix} = \begin{bmatrix} -4 \\ -10 \\ 6 \end{bmatrix}$

3) $\begin{bmatrix} -1 & -2 \\ 3 & 0 \\ 8 & 9 \end{bmatrix} \times \begin{bmatrix} 0 & 2 \\ -2 & 5 \end{bmatrix} = \begin{bmatrix} 4 & -12 \\ 0 & 6 \\ -18 & 61 \end{bmatrix}$

4) $\begin{bmatrix} -1 & 2 & 0 \\ -5 & 8 & 9 \end{bmatrix} \times \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix} = \begin{bmatrix} 3 \\ 38 \end{bmatrix}$

5) $\begin{bmatrix} -2 \\ 4 \\ 3 \end{bmatrix} \times \begin{bmatrix} -1 & 0 \end{bmatrix} = \begin{bmatrix} 2 & 0 \\ -4 & 0 \\ -3 & 0 \end{bmatrix}$

6) $\begin{bmatrix} 8 & 9 \\ -6 & -5 \\ 2 & 4 \end{bmatrix} \times \begin{bmatrix} 4 \\ 1 \end{bmatrix} = \begin{bmatrix} 41 \\ -29 \\ 12 \end{bmatrix}$

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