Name _____ Date _____

Year Group _____

Use the following matrices to answer the questions below

A. $\begin{bmatrix} 3 & 6 \\ -4 & 2 \end{bmatrix}$ B. $\begin{bmatrix} -2 & 7 \\ 5 & 4 \end{bmatrix}$

1. Write down the first steps for A x B.

   Answer = $\begin{bmatrix} \_\_*\_\_+\_\_*\_\_ & \_\_*\_\_+\_\_*\_\_ \\ \_\_*\_\_+\_\_*\_\_ & \_\_*\_\_+\_\_*\_\_ \end{bmatrix}$

2. What is the result for A x B?

   Answer = $\begin{bmatrix} \_\_ & \_\_ \\ \_\_ & \_\_ \end{bmatrix}$

3. What is the result of B x A?

   Answer = $\begin{bmatrix} \_\_ & \_\_ \\ \_\_ & \_\_ \end{bmatrix}$

4. What is the result of A x A?

   Answer = $\begin{bmatrix} \_\_ & \_\_ \\ \_\_ & \_\_ \end{bmatrix}$

Find the missing elements given the matrices below

A. $\begin{bmatrix} 2 & \_\_ \\ -3 & 4 \end{bmatrix}$ B. $\begin{bmatrix} -6 & 3 \\ 4 & \_\_ \end{bmatrix}$

5. Find the missing elements so that A x B = $\begin{bmatrix} 8 & 16 \\ 34 & -1 \end{bmatrix}$

   Answer = A. $\begin{bmatrix} 2 & \_\_ \\ -3 & 4 \end{bmatrix}$ B. $\begin{bmatrix} -6 & 3 \\ 4 & \_\_ \end{bmatrix}$