Name _____ Date _____

Year Group _____

Fill out all the steps for the determinant of matrix A

$$A = \begin{bmatrix} 5 & 2 \\ 4 & 3 \end{bmatrix}$$

1. ___ * ___ − ___ * ___
   ___ − ___
   ___

Find the determinant of the following matrices below

$$B = \begin{bmatrix} -1 & 2 \\ 4 & -7 \end{bmatrix} \qquad C = \begin{bmatrix} -5 & -4 \\ 6 & 3 \end{bmatrix} \qquad D = \begin{bmatrix} 3 & 8 \\ -4 & -3 \end{bmatrix}$$

2. Determinant of B = ____
3. Determinant of C = ____
4. Determinant of D = ____

Fill out the missing element in the matrix

5. The determinant of E is 2. If the matrix of $E = \begin{bmatrix} 7 & 3 \\ \_\_\_ & 2 \end{bmatrix}$, find the missing element.

Answer = $E = \begin{bmatrix} 7 & 3 \\ \_\_\_ & 2 \end{bmatrix}$

6. The determinant of E is -4. If the matrix of $E = \begin{bmatrix} -6 & \_\_\_ \\ 2 & 3 \end{bmatrix}$, find the missing element.

Answer = $E = \begin{bmatrix} -6 & \_\_\_ \\ 2 & 3 \end{bmatrix}$