Name _____ Date _____

Year Group _____

Fill out the steps to find determinant of the matrix using the first row

1. Matrix $A = \begin{bmatrix} 1 & 3 & -2 \\ 4 & 5 & -1 \\ -3 & 0 & 6 \end{bmatrix}$

$$__ * \begin{vmatrix} __ & __ \\ __ & __ \end{vmatrix} - __ * \begin{vmatrix} __ & __ \\ __ & __ \end{vmatrix} + __ * \begin{vmatrix} __ & __ \\ __ & __ \end{vmatrix}$$

Answer = ___

Find the minor and cofactors of the matrix below

Matrix $B = \begin{bmatrix} -2 & 3 & 2 \\ 5 & 4 & 0 \\ 1 & -7 & 6 \end{bmatrix}$

2. $M_{1,1} =$ ___ cofactor $of\ B_{1,1} =$ ___
3. $M_{2,2} =$ ___ cofactor $of\ B_{2,2} =$ ___
4. $M_{3,2} =$ ___ cofactor $of\ B_{3,2} =$ ___

Right out the only determinant when using the second row to break down the determinant of the matrix

5. Matrix $C = \begin{bmatrix} 2 & 4 & 3 \\ 0 & -5 & 0 \\ 6 & 0 & -1 \end{bmatrix}$

$$__ * \begin{vmatrix} __ & __ \\ __ & __ \end{vmatrix}$$

Answer = ___

LIVEWORKSHEETS