Name _____   Date _____

Year Group _____

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

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

    $\_\_ * \begin{vmatrix} \overline{} & \overline{} \\ \underline{} & \underline{} \end{vmatrix} - \_\_ * \begin{vmatrix} \overline{} & \overline{} \\ \underline{} & \underline{} \end{vmatrix} + \_\_ * \begin{vmatrix} \overline{} & \overline{} \\ \underline{} & \underline{} \end{vmatrix}$

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

    $\_\_ * \begin{vmatrix} \overline{} & \overline{} \\ \underline{} & \underline{} \end{vmatrix}$

    Answer = ____