

QUESTION 10

The table gives a listing of elements. Determine coefficients a and b for the following homogeneous system of linear equations. Express all free variables and any homogeneous components using the minimum number of arbitrary parameters. The homogeneous system is represented by $AX = 0$, where A is the coefficient matrix and X is the vector of unknowns. Express the solution in terms of X .

Solution 10:

Let $X = \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \\ x_5 \end{bmatrix}$ and $A = \begin{bmatrix} 1 & 2 & 3 & 4 & 5 \\ 2 & 4 & 6 & 8 & 10 \\ 3 & 6 & 9 & 12 & 15 \\ 4 & 8 & 12 & 16 & 20 \\ 5 & 10 & 15 & 20 & 25 \end{bmatrix}$.
The homogeneous system is $AX = 0$.
The rank of A is 1, so the system has 4 free variables.
Let $x_2 = s$, $x_3 = t$, $x_4 = u$, and $x_5 = v$.
Then $x_1 = -2s - 3t - 4u - 5v$.
The solution is $X = \begin{bmatrix} -2s - 3t - 4u - 5v \\ s \\ t \\ u \\ v \end{bmatrix}$.

Answer: $X = \begin{bmatrix} -2s - 3t - 4u - 5v \\ s \\ t \\ u \\ v \end{bmatrix}$

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