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Fundamental Subspaces

In this section we want to take a look at some important subspaces that are associated with matrices. In fact they are so important that they are often called the fundamental subspaces of a matrix. We've actually already seen one of the fundamental subspaces, the null space, [previously](#) although we will give its definition here again for the sake of completeness.

Before we give the formal definitions of the fundamental subspaces we need to quickly review a concept that we first saw back when we were looking at matrix arithmetic.

Given an $(p \times q)$ matrix

$$A = \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1q} \\ a_{21} & a_{22} & \cdots & a_{2q} \\ \vdots & \vdots & \ddots & \vdots \\ a_{p1} & a_{p2} & \cdots & a_{pq} \end{bmatrix}$$

The **row vectors** (we called them row matrices at the time) are the vectors in \mathbb{R}^q formed out of the rows of A . The **column vectors** (again we called them column matrices at the time) are the vectors in \mathbb{R}^p that are formed out of the columns of A .

Example 1 Write down the row vectors and column vectors for

$$A = \begin{bmatrix} -1 & 5 \\ 0 & -4 \\ 9 & 2 \\ 3 & -7 \end{bmatrix}$$

Solution

The row vectors are,

$$\mathbf{r}_1 = [-1 \quad 5] \quad \mathbf{r}_2 = [0 \quad -4] \quad \mathbf{r}_3 = [9 \quad 2] \quad \mathbf{r}_4 = [3 \quad -7]$$

The column vectors are

$$\mathbf{c}_1 = \begin{bmatrix} -1 \\ 0 \\ 9 \\ 3 \end{bmatrix} \quad \mathbf{c}_2 = \begin{bmatrix} 5 \\ -4 \\ 2 \\ -7 \end{bmatrix}$$

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Mathematical Reviews, 2005 *Conformal Graph Directed Markov Systems on Carnot Groups* Vasileios

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