Four fundamental subspaces

Consider the linear equal A has nows and p colomi	tion $Ax = 0$ where is, $p > n$.
To find the subspaces, reprivates &	duce ATO UNIT
$\frac{d_1}{\circ - \circ d_2} - d_3 - \cdots$	with zeros in columns below the pivotes any numbers above
Reorder the columns to	, pet all pivots along
the alagonal.	7
$\begin{array}{c c} d_1 \\ o d_2 \\ o d_3 \\ o o d_3 \\ o o o o$	$row space$ $r = dim R(A^T)$ $r = dim R(A^T)$
$\begin{array}{c} 7000 \\ -1 \\ \hline \end{array}$	p-r = dim N(A)
n-r=dim(N(AT) left	nullspace um space

subspeces of Rn