1) Find the dimension of the subspace \( H \) inside of \( \mathbb{R}^4 \) given by all vectors of the form

\[
\begin{bmatrix}
2a + 4b + c + 5d \\
a - 7b - 4c + 7d \\
-a + b + c - 4d \\
-a - b - 3d
\end{bmatrix}
\]

where \( a, b, c, d \) are any real numbers.
2) If $A$ is a $9 \times 6$ matrix, what is the largest possible dimension of the row space of $A$? What is the largest possible dimension of the null space $Nul(A)$?