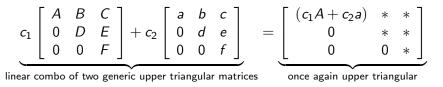
Ex: $V = \mathbb{R}^{3 \times 3}$, S is the subset of all upper triangular matrices.



where you can work out the values of the other stars. So S is a subspace.