

Source:

1 | Grading

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2 | Sum vs Direct Sum

- You can use the fact that when there's **two** subspaces whose intersection is $\{0\}$.
 - But not when there's more than two subspaces. You have to add two of them into a subspace and then intersect that with the third one.
 - #question : does it work if the all pairwise intersections are zero?