

1 | **#definition Homogeneous Equation**

When the right side equals zero.

2 | **Properties**

2.1 | **If a linear combination of linearly independent vectors then all coefficients are 0**

2.2 | **if linearly dependent, then are multiple solutions (atleast dim1 infinitely many because you can scale)**

2.3 | **There's always a solution: the trivial one (all coefficients are zero)**

2.3.1 | **unlike systems of equations, you can't have no solution because linear maps take zero to zero**