## Source:

- 1 | See Before: homogeneous equations
- 2 | Homogeneous systems of linear equations with more variables than equations has nonzero solutions (Axler3.26)
- 3 | Inhomogeneous systems of linear equations with more equations than variables have no solution for some choice of constant terms
- 4 | methodology

Basically turn it into a linear map and then abuse the injective/surjective theorems

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