1. Column space, solving inhomogeneous equations, determinants and inverses

Objectives

- Apply the **rank nullity theorem** to find the dimension of the span of the columns of a matrix and the dimension of its nullspace.
- Find a basis for the span of a set of vectors.
- Relate the solutions to **inhomogeneous linear systems** $\mathbf{Ax} = \mathbf{b}$ to solutions to the homogeneous system $\mathbf{Ax} = \mathbf{0}$ plus one particular solution.
- Compute **matrix inverses** using augmented matrices and row reduction techniques.
- Use the **determinant** to determine if a square matrix is invertible.

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