Jan 26 Inverses

Watch 3blue1brown video on inverses Tuesday office hours is extended by an hour

3.3 Inverses

- A linear transfrmation in \mathbb{R}^2 is equal to its inverse if equal to its own
- A square matrix A is invertible if there exists B such that $AB = I_n$.
- Give more examples of inverses we can figure out geometrically.
 - scaling
 - shear
- Properties of inverses. Assume A,B invertible, then
 - $-\$(A^{\{-1\}})\{-1\} = A$ $(AB)^{\{-1\}=B}\{-1\}A^{\{-1\}}$

 - If AC = AD then C = D.
- Derive method for computing. Explain both matrix multiplicatin version and linear map version.
- Do some basis examples.
- Give 2d formula