

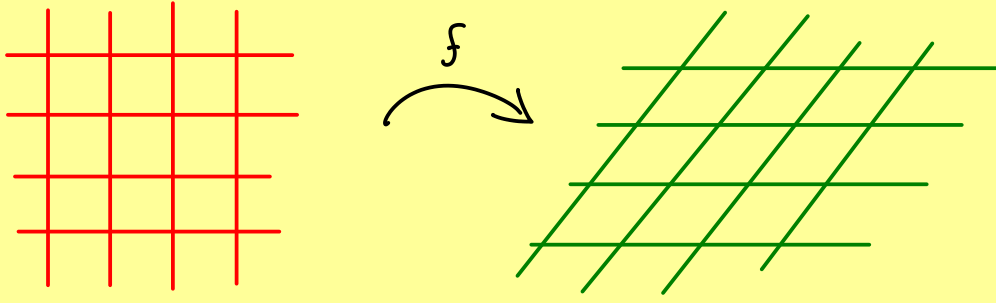
The Bright Side of Mathematics



Linear Algebra - Part 21

$f: \mathbb{R}^n \rightarrow \mathbb{R}^m$ linear

- preserves the linear structure
- linear subspaces are sent to linear subspaces



Examples: $f: \mathbb{R}^2 \rightarrow \mathbb{R}^2$, $f(x) = \begin{pmatrix} | & | \\ a_1 & a_2 \\ | & | \end{pmatrix} x$

