



what is linear algebra?

# Linear

# Algebra



# what is linear algebra?

- **Linear**
  - having to do with lines, planes, space, etc.
  - example:  $x + y + 3z = 7$  (and not  $\sin, \log, x^2, \dots$ )
- **Algebra**
  - solving equations involving numbers and symbols
  - *"reunion of broken parts"*

Linear algebra is the math of vectors and matrices, so we'll start by definitions and the mathematical operations we can perform on vectors and matrices.

scalars

scalars