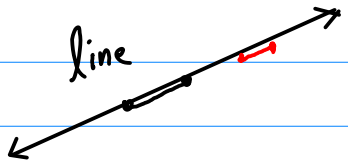
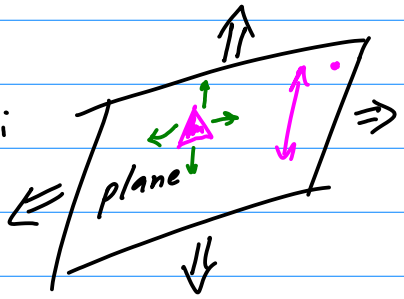
The Dimensions: 0th through the 4th

- 0th Dimension: . ← point (immeasureable)
  - infinitely small
  - ∅ length
  - ∅ width
  - ∅ height/depth

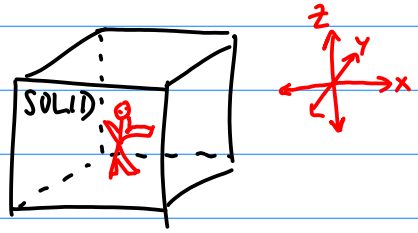
- 1st Dimension:
  Measurement: LENGTH
  - new property: length



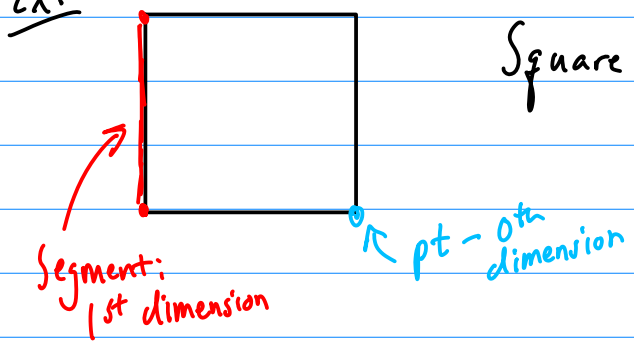
- 2nd Dimension:
  measurement: AREA
  - new property: width



- 3rd Dimension:
  Measurement: VOLUME or SPACE
  - new property: height



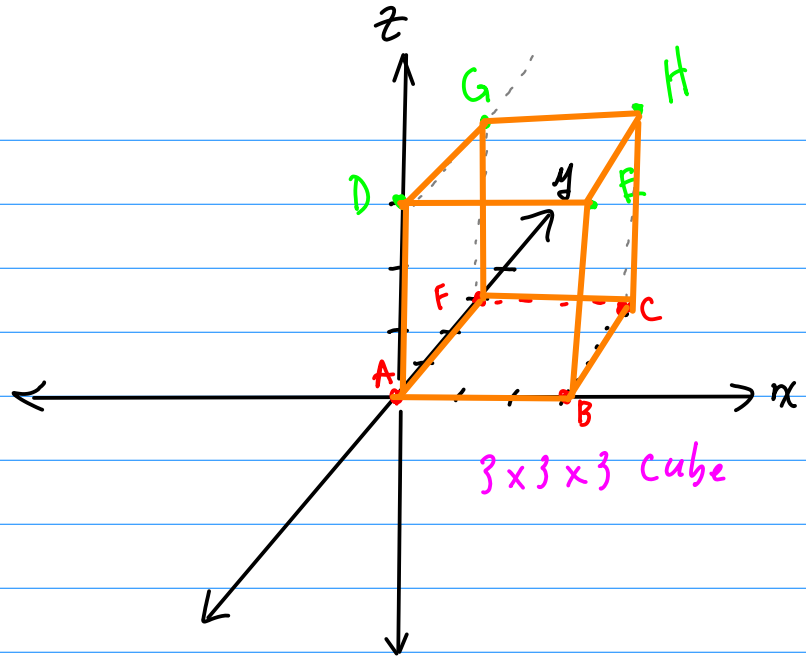
Ex:



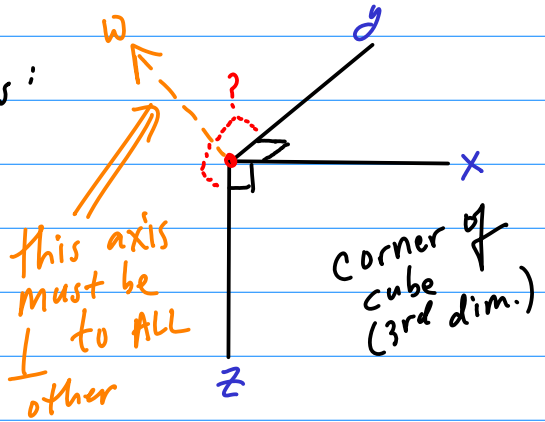
Square: a 2-dimensional figure.

Ex:

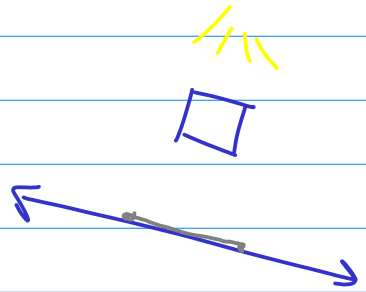
	x	y	z
A	0	0	0
B	3	0	0
C	3	3	0
D	0	0	3
E	3	0	3
F	0	3	0
G	0	3	3
H	3	3	3



.4th Dimensions:



Not possible in 3D.



dimension	example figure
0th	pt
1st	line (segment)
2nd	square, polygon, ⊙
3rd	cube
4th	hypercube

shadow