

5.1 Points, Lines,

Jan. 17, 2007

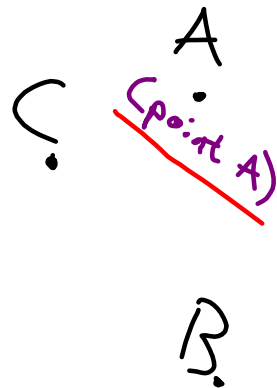
→ Planes ... OH! MY!!

The Most Basic Geom. Terms.

- Point: - an exact Location - Pin hole

• **D** - No Space

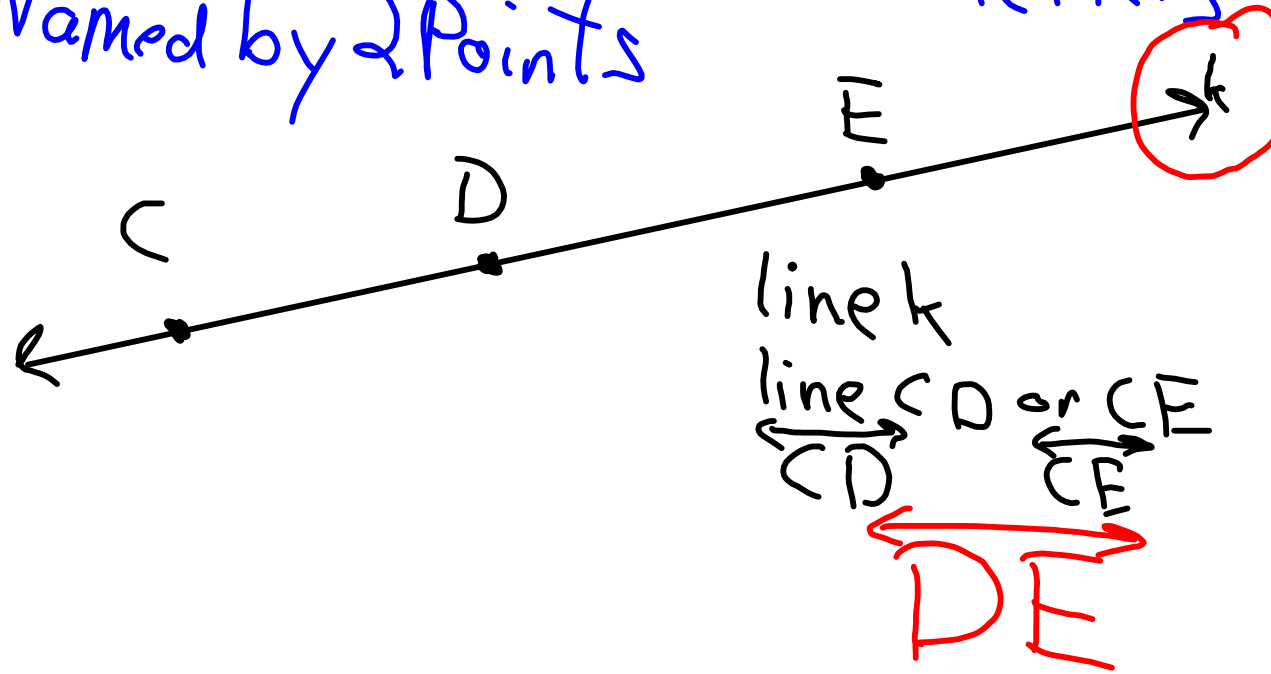
- Represented by a dot &
a Capital Letter



"Speak"

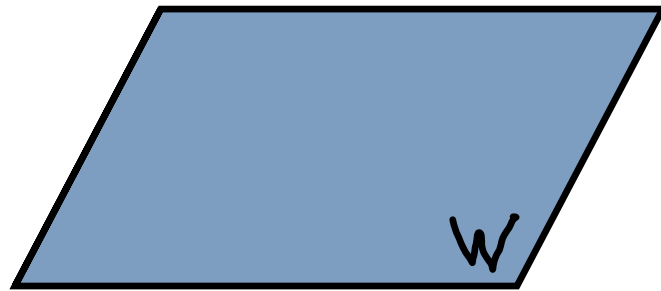
Basic Terms Cont.

- ↔
- Line: - Never Ending ^{Straight} ~~Stretch of Path~~
 - No Thickness - Many Little Points lined up.
 - Represented: by double Arrows + uppercase or lowercase letters
 - Named by 2 Points



Basic Terms contd

- Plane: Never Ending Flat Surface.
 - Extends indefinitely in All Directions
 - No Thickness
 - Represented by 4 sided Figure.
 - Named by a Capital letter.



Plane W

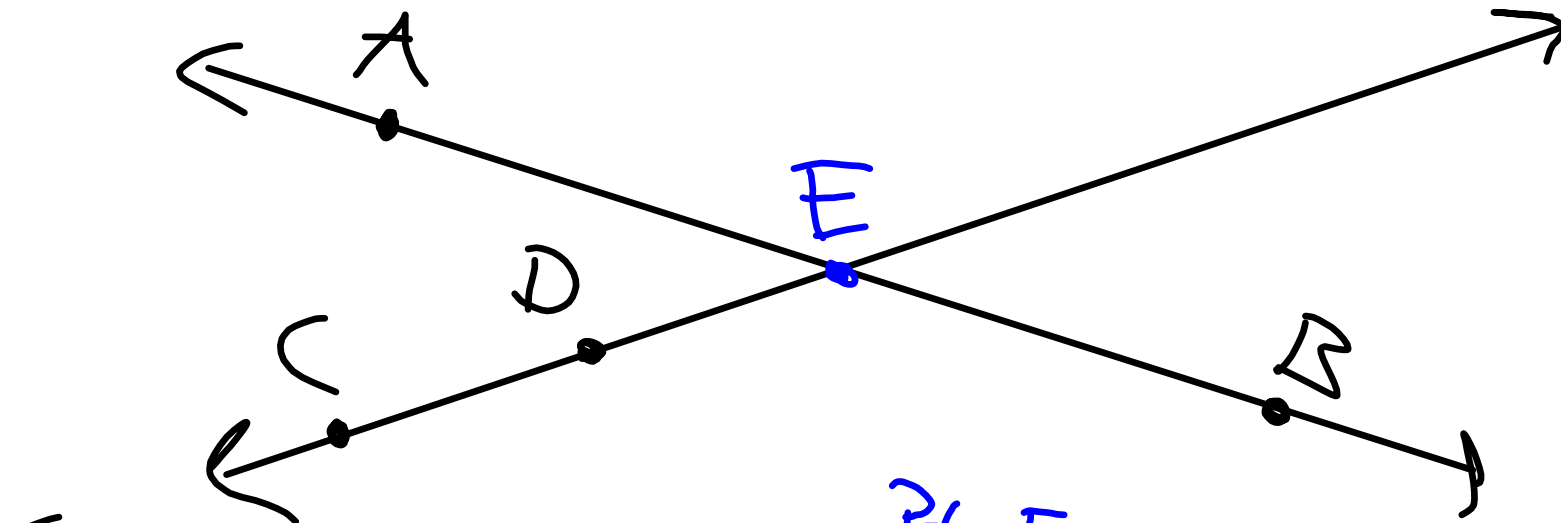
Other terms:

- line segment: part of a line
consisting of 2 Points &
all the points between them
The 2 Points are called endpoints

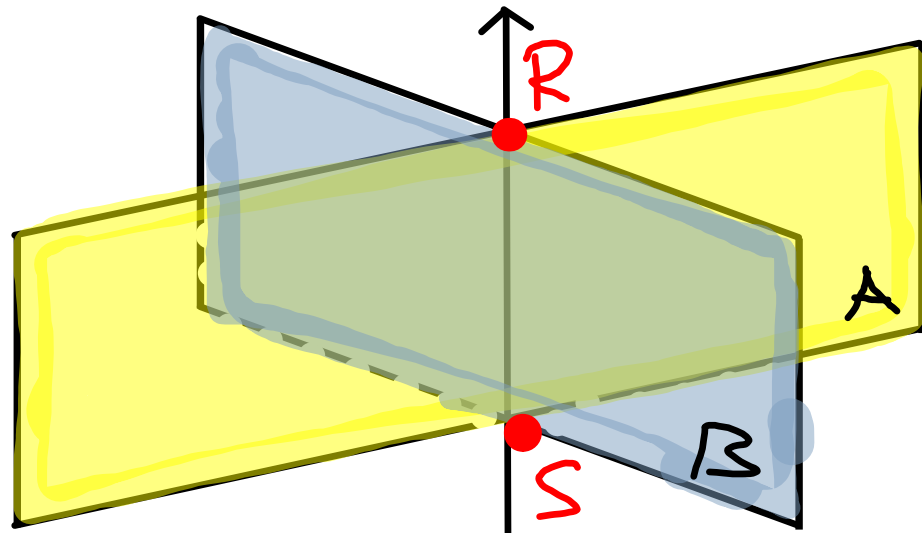


line segment \overline{AB}
 \overline{AB}

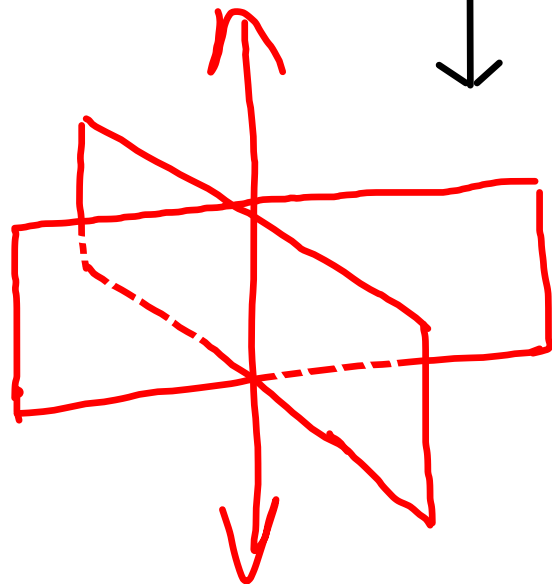
Intersect: where 2 or More lines or Planes have one (or More) points in Common.



AB intersects CD at Pt. E
 $\overleftrightarrow{AB} \cap \overleftrightarrow{CD}$ at E



Plane A \cap (intersects)
with Plane B
at \overleftrightarrow{RS}
line not line seg.



No OTL