

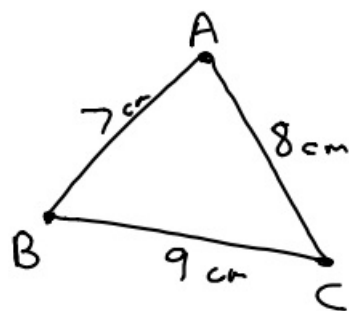
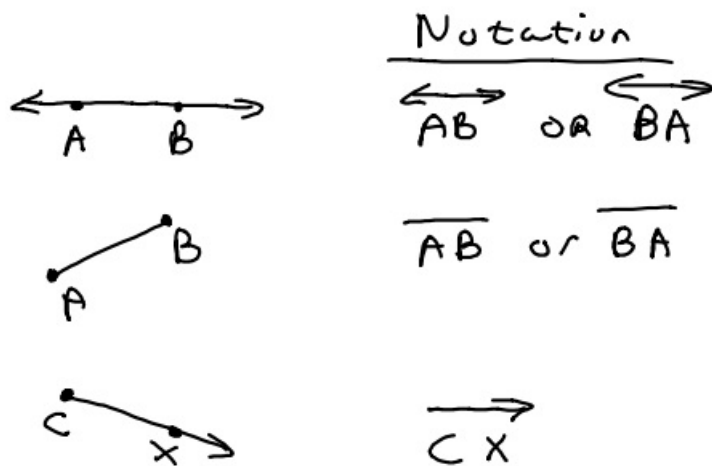
8-18-17 5th Geo

Point •
- giving location

Line \longleftrightarrow
goes on forever in both directions

Line segment $\overline{\quad}$
has endpoints

Ray $\overrightarrow{\quad}$
has starting point and then goes on forever in a direction



~~$\overline{AB} = 7\text{cm}$~~

$AB = 7\text{cm}$

What is BC? 9

distance from B to C.

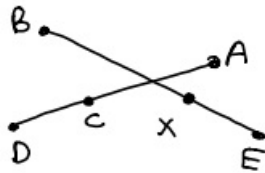
Opposite rays



\overrightarrow{AD} and \overrightarrow{AB} are opposite rays.

Collinear points

points on the same line
(line segment)



Give points
that are
collinear

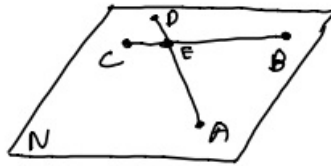
D, C
X, B

Give points
that are NOT
collinear

A, X
B, C

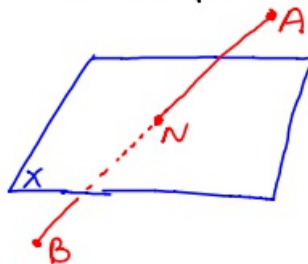
Plane

flat surface that
extends in all directions
forever

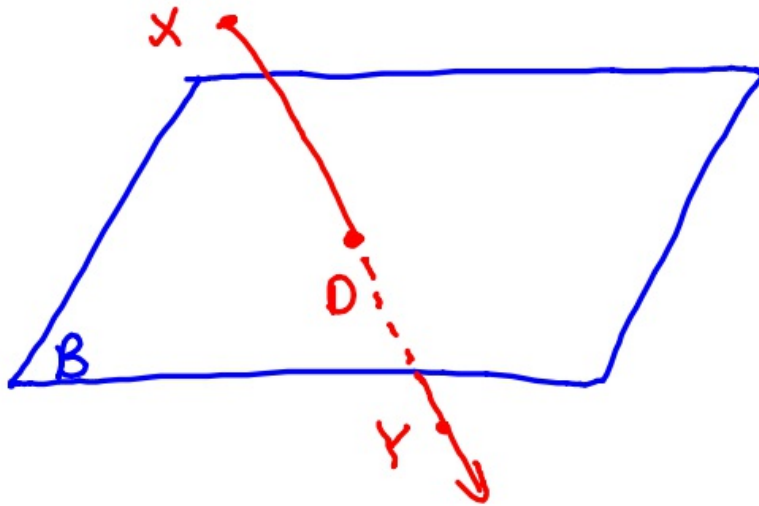


Plane N

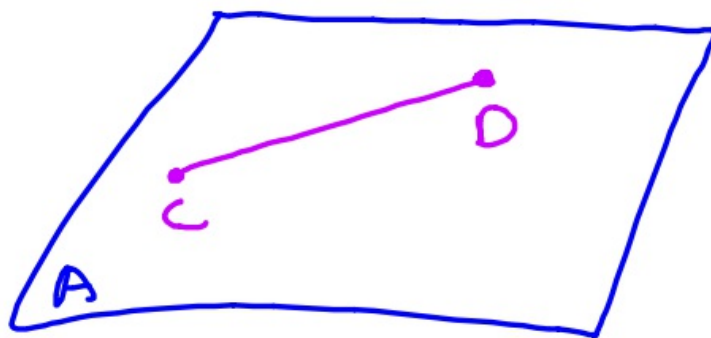
Draw \overline{AB} that goes through
plane X at point N.



Draw plane B with \overrightarrow{XY} going through it at point D.





Draw plane A with \overline{CD} on the plane and point N off of the plane.




\bullet N

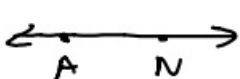
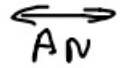
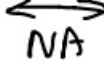
8-18-17 6th Geo


Point 
gives a location

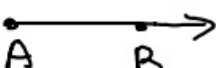
Line 
goes on forever in both directions

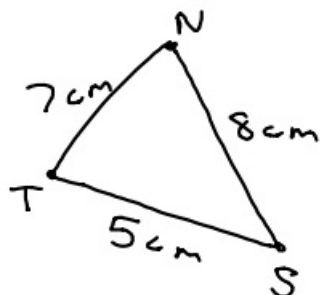
Line segment 
part of a line

Ray 

 Notation
 OR 

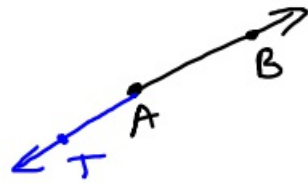
 \overline{CX} OR \overline{XC}

 \overrightarrow{AB}



Distance from
point N to point T
 $NT = 7\text{cm}$

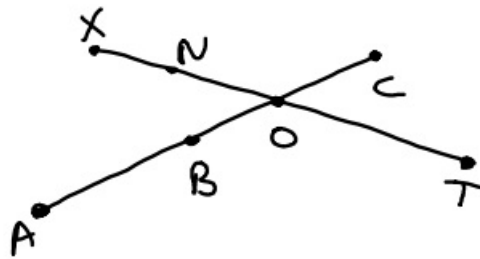
Opposite Rays



\vec{AT} and \vec{AB} are opposite rays

Collinear points

points on the same line



Collinear points

A, B

X, N

Non-collinear points

A, N

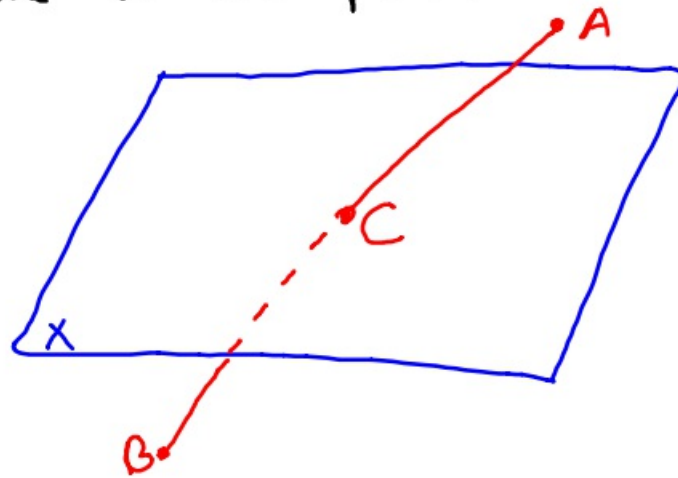
C, T

Plane - flat surface that extends in all directions

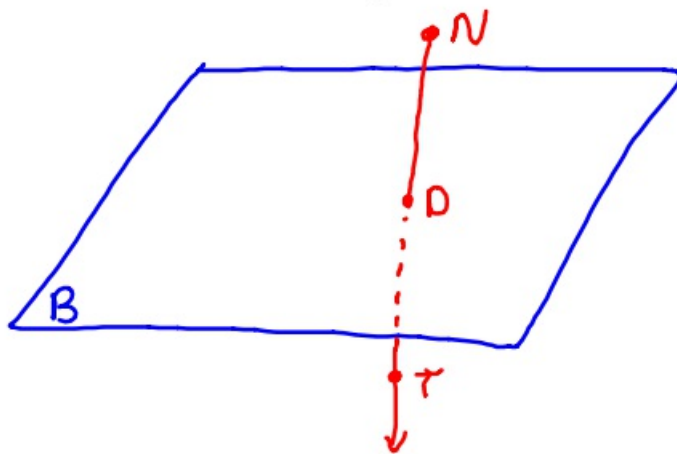
Ex: floor, ceiling, wall, etc.



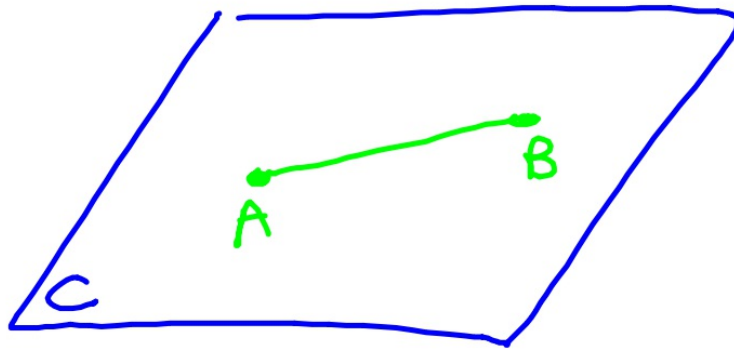
Draw \overline{AB} that goes through
Plane X at point C.



Draw plane B that has \overrightarrow{NT}
intersecting the plane at point D.



Draw \overline{AB} on plane C and
point X not on the plane.



X