

# Points / Lines / Planes

- point  $\rightarrow$  indicates location

$\Rightarrow$  Name/identify as dot w/ capital letter

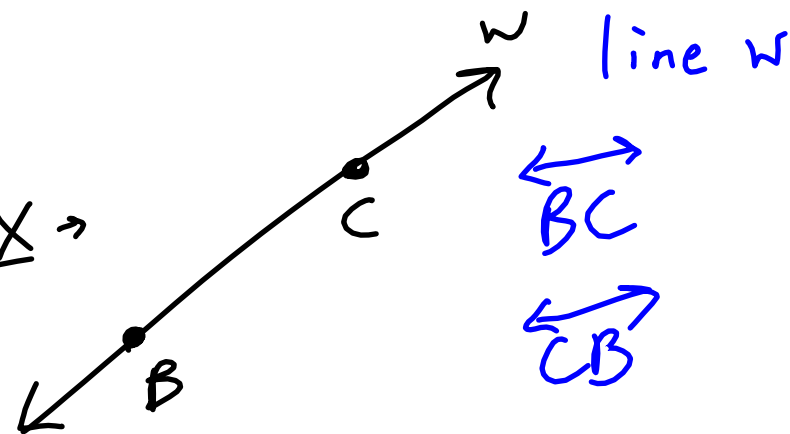
EX  $\rightarrow$   $\cdot A$

$\cdot Q$

- line  $\rightarrow$  infinite # of points

$\Rightarrow$  Name using any 2 pts. on line OR by lower case letter

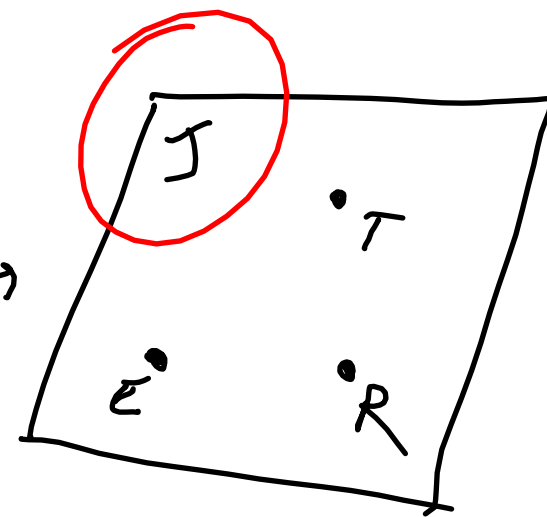
EX  $\rightarrow$



- plane  $\rightarrow$  infinite # of lines, flat

$\Rightarrow$  Name using 3 non-collinear pts. OR uppercase letter

EX  $\rightarrow$

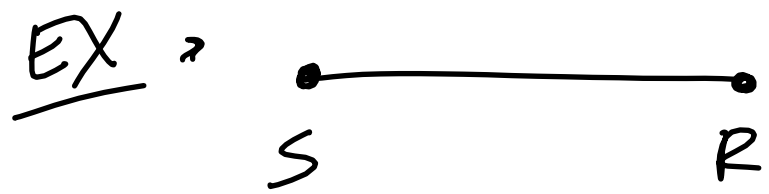


plane J

plane  
RET  
TER  
ERT

- line segment  $\rightarrow$  2 endpts.

$\Rightarrow$  Name w/ 2 endpts.

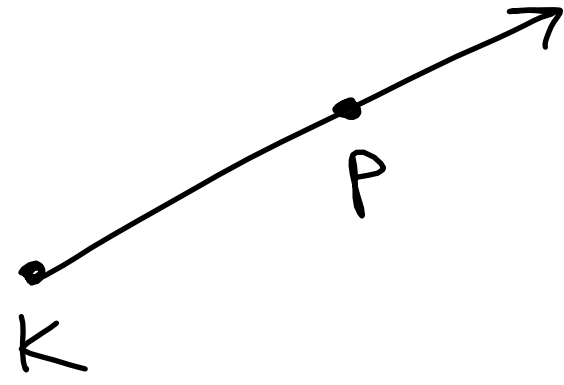


$\overline{SR}$  OR  $\overline{RS}$

- ray  $\rightarrow$  1 endpt., everything on that side

$\Rightarrow$  Name w/ endpt. + 1 other pt.

EX  $\rightarrow$



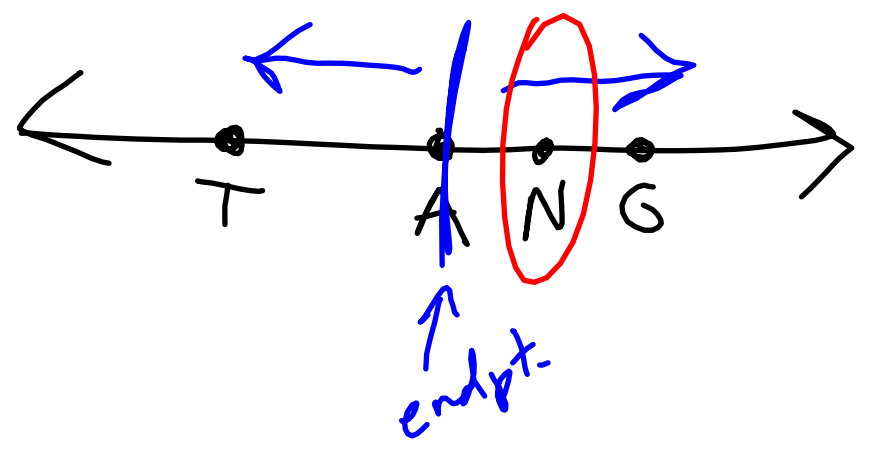
$\overrightarrow{KP}$   
 $\overleftarrow{BA}$



- opposite rays  $\rightarrow$  2 rays w/ same endpt., make a line

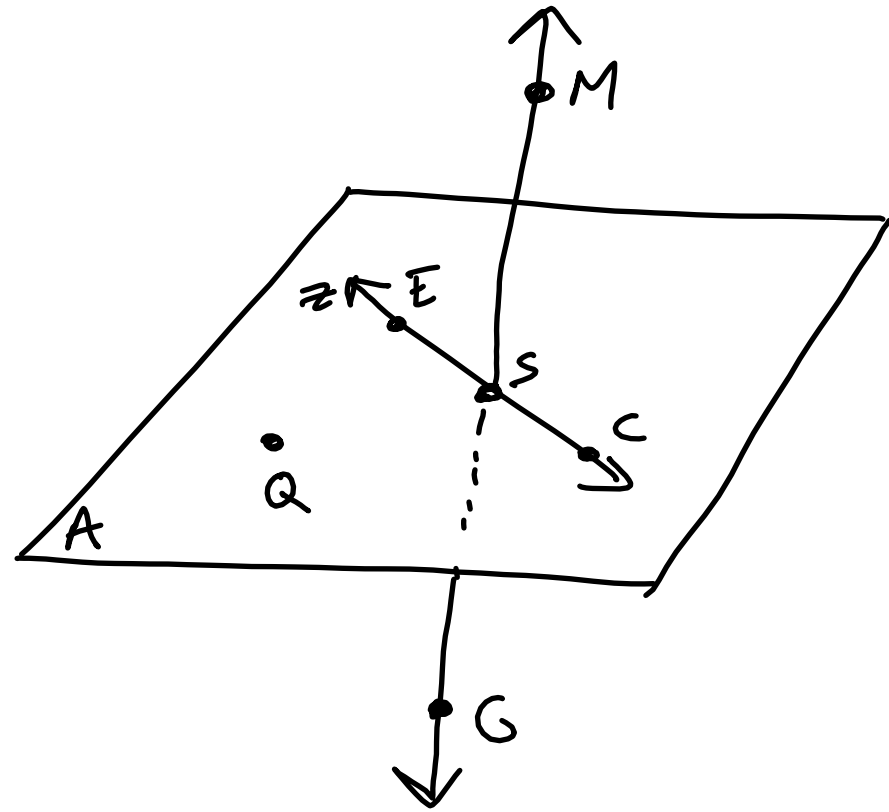
$\Rightarrow$  Name w/ same endpt. + pt. on either side

EX  $\rightarrow$



$\overrightarrow{NG}$  +  $\overrightarrow{NA}$   
OR  
 $\overrightarrow{NG}$  +  $\overrightarrow{NT}$

Ex →



1) Another way to name  $\overleftrightarrow{SC}$ ?  
 $\overleftrightarrow{SE}, \overleftrightarrow{CE}, \overleftrightarrow{ES}, \text{line } z$

2) Another way to name  $\overleftrightarrow{MG}$ ?  
 $\overleftrightarrow{GM}, \overleftrightarrow{GS}, \overleftrightarrow{MS}$

3) Another way to name plane A?  
 $\text{plane } QSC, \text{plane } QES, \text{plane } QEC$

4) Name a pair of opposite rays.  
 $\overrightarrow{SE} + \overrightarrow{SC}, \overrightarrow{SM} + \overrightarrow{SG}$

HW: p. 16 → 8-32, 39, 50, 65