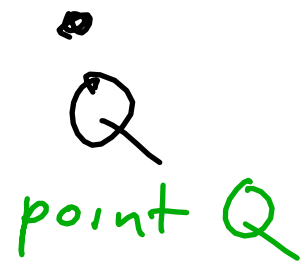


# Points/Lines/Planes

- point  $\rightarrow$  tells location

$\Rightarrow$  name w/ dot + capital letter

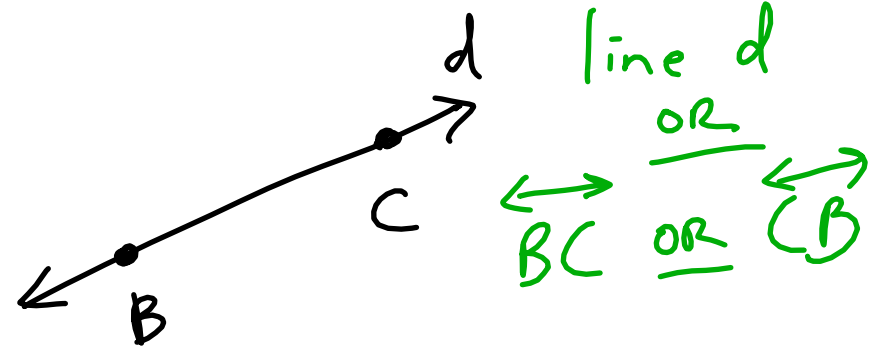
EX  $\rightarrow$



- line  $\rightarrow$  infinite # of points

$\Rightarrow$  name w/ 2 points on line + double arrow above  
OR lower case letter

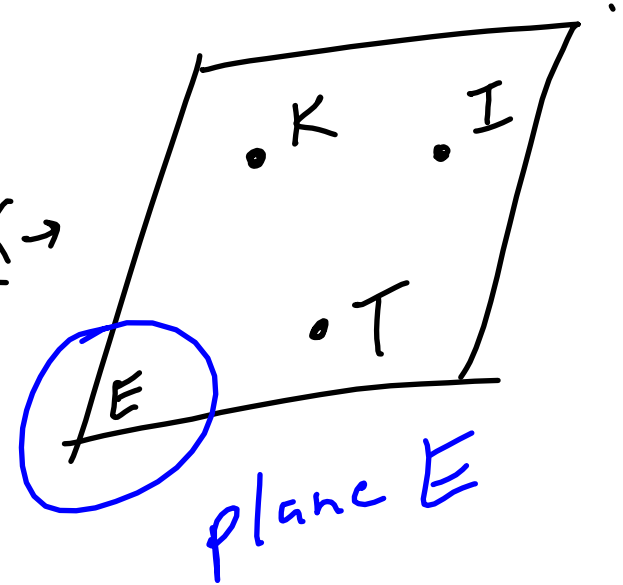
EX  $\rightarrow$



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

$\Rightarrow$  name using 3 points not on same line OR capital letter

EX  $\rightarrow$

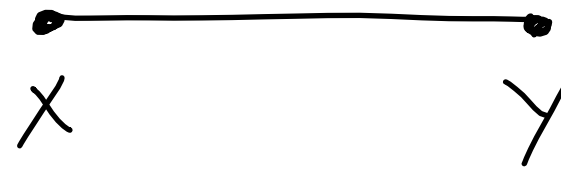


plane TIK  
plane KIT  
plane ITK

- line segment  $\rightarrow$  2 endpoints

$\Rightarrow$  name w/ bar above 2 endpoints

EX  $\rightarrow$

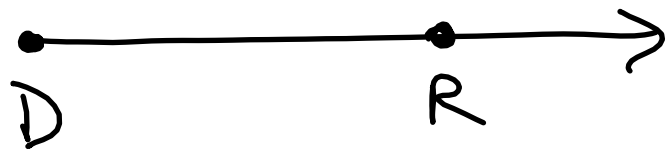


$\overline{XY}$  OR  $\overline{YX}$

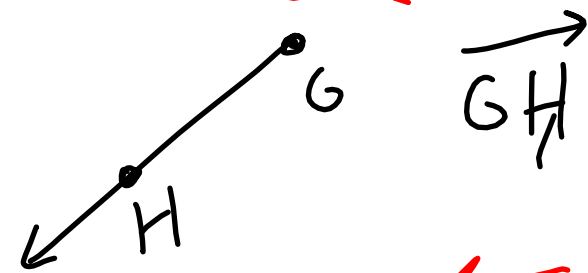
- ray  $\rightarrow$  1 endpoint, all points on that side of line

$\Rightarrow$  name w/ endpoint + 1 other point w/ one-sided arrow above

EX  $\rightarrow$



$\overrightarrow{DR}$

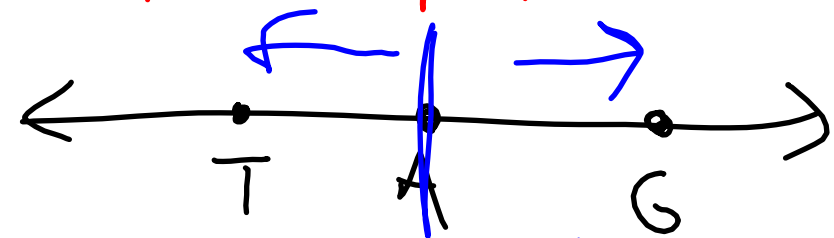


$\overrightarrow{GH}$

- opposite rays  $\rightarrow$  2 rays w/ same endpoint, makes line

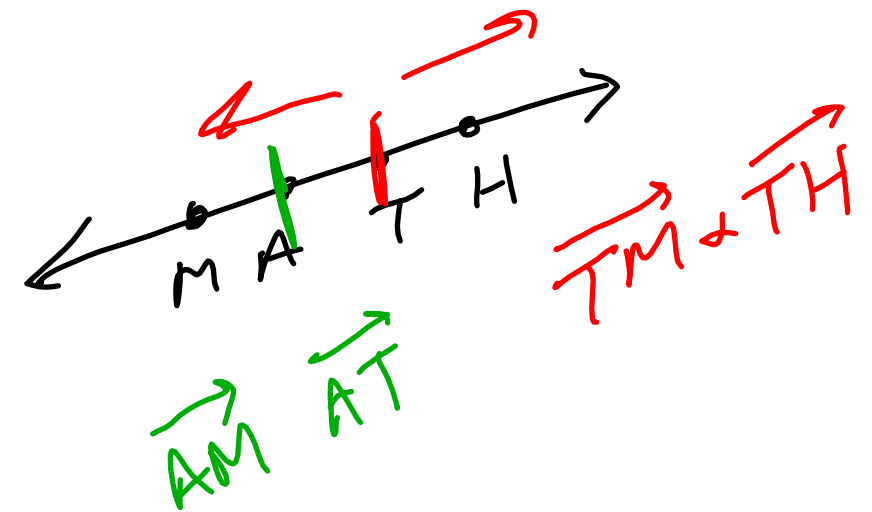
$\Rightarrow$  name w/ endpoint + point on either side (2 rays)

EX  $\rightarrow$

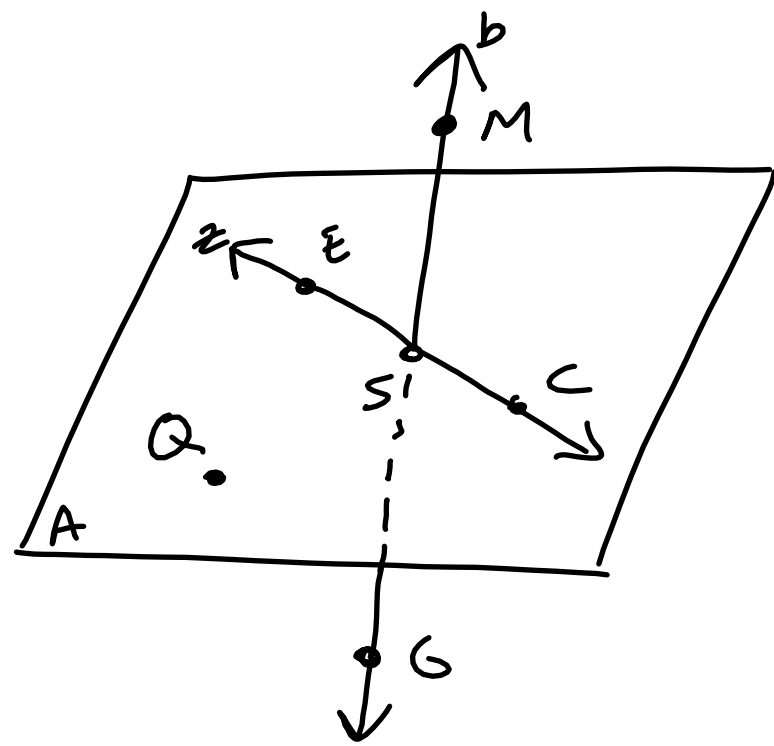


↑ endpoint

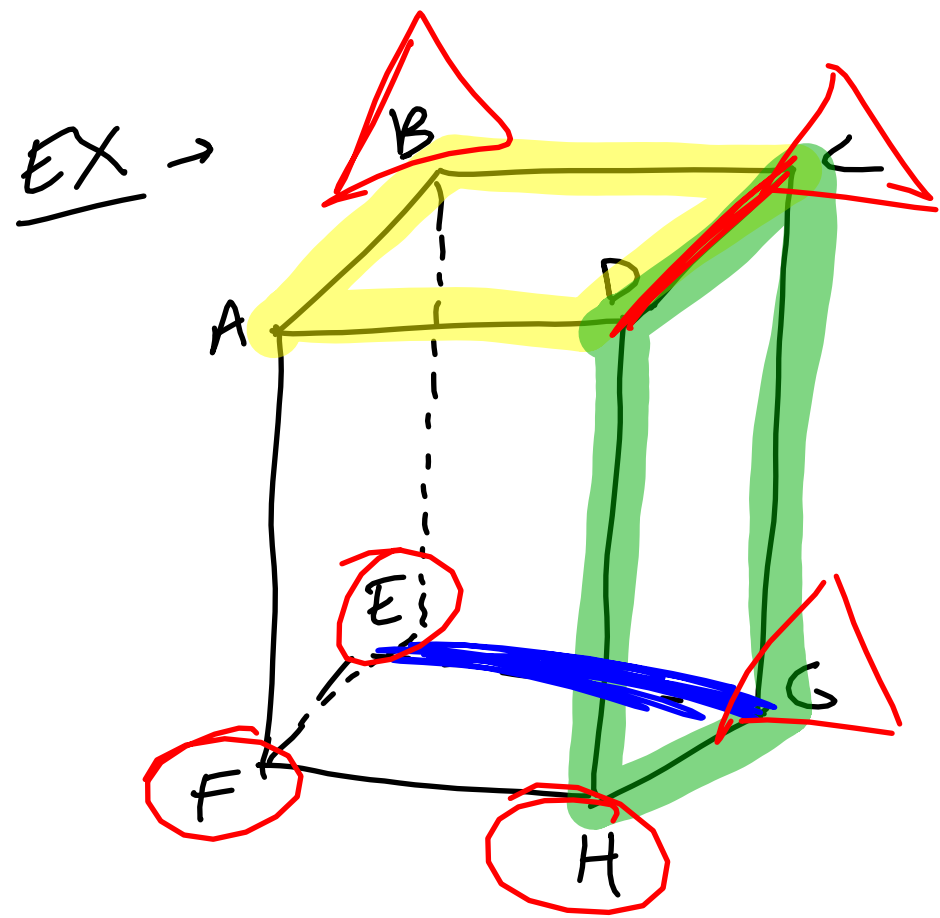
$\overrightarrow{AT}$  +  $\overrightarrow{AG}$



EX →



- 1) Another way to name plane A?  
plane EQC, plane QEC, plane SEQ, plane SCQ
- 2) Two sets of opposite rays?  
 $\vec{SE} + \vec{SC}$ ,  $\vec{SM} + \vec{SG}$
- 3) Another way to name  $\leftrightarrow EC$ ?  
 $\overleftarrow{CE}$ ,  $\overleftarrow{ES}$ ,  $\overleftarrow{SE}$ , line z



1) planes  $ABC$  &  $DHG$  intersect?

↔  
 $DC$

2) what planes intersect @  $\overleftrightarrow{EG}$ ?

$EFH$  &  $BCG$

HW: p. 16 → 8-32, 65