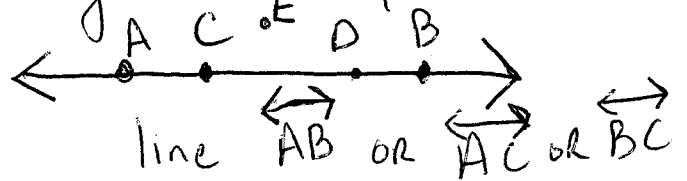


Geometry Notes on 1-3: Points, Lines, and Planes

Point: A location in space.
Named w/ one letter
Zero Dimensional

B
"point B"

Line: A set of points extending infinitely in 2 directions
Named with 2 points
Use arrow heads
One dimensional



Points on the same line are collinear.

Plane:

A set of points in a flat surface that extends infinitely.

Points in same plane are coplanar.

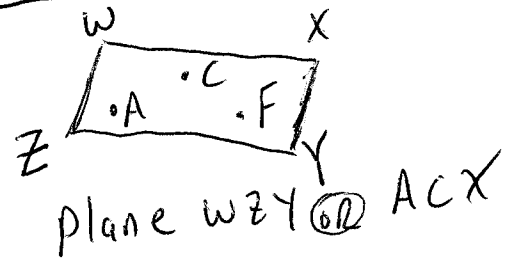
Named with three points & 2-D

A Postulate is

a Fact.

It's accepted as true.

shared ↑ Line



Postulate 1-1:

Through any 2 points there is exactly one line.

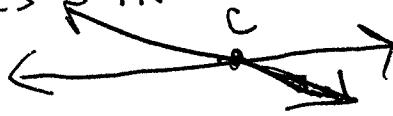


Postulate 1-4:

Through any 3 points there is one plane.

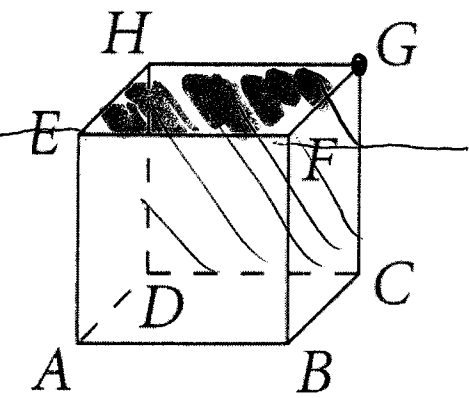
Postulate 1-2:

IF two lines intersect, they meet at one point.



Postulate 1-3:

IF two planes intersect, they intersect at one line.



point D
 Line \overleftrightarrow{EF}
 plane EAB

What points are coplanar w/ G?

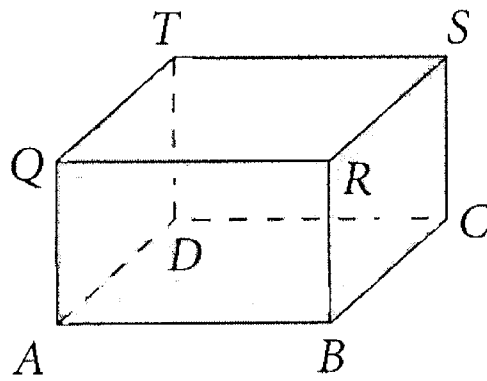
C, B, F, H, E, D

Name Intersection:

\overleftrightarrow{EA} & \overleftrightarrow{BA}

• point A

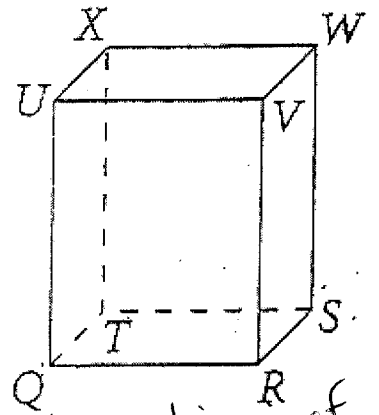
plane \overleftrightarrow{HGF} & \overleftrightarrow{BCG}
 \overleftrightarrow{FG}



① Name intersection of \overleftrightarrow{QR} & \overleftrightarrow{BR} .

② ABC & TSD

③ Name Front of Box.



① Intersection of \overleftrightarrow{xw} & \overleftrightarrow{TX}

② \overleftrightarrow{RS} & \overleftrightarrow{QR}

③ QUV & TSR

④ WSR & xwv

⑤ Name Right side

⑥ Name Front, Bottom edge