

1.1

POINTS, LINES AND PLANES (DAY 2)

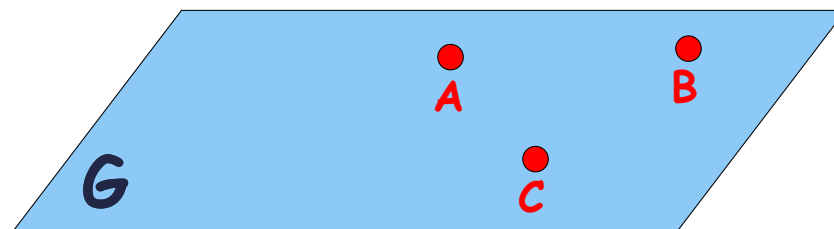
Postulate 1

Through any _____ points
there is exactly _____.

Postulate 2

If two _____ lines
_____, then they _____
at exactly _____.

Naming Planes



- To name any plane, pick any 3 points!
- Using a single cursive or italicized letter not associated with a point on the plane

DEFINITIONS

Collinear –

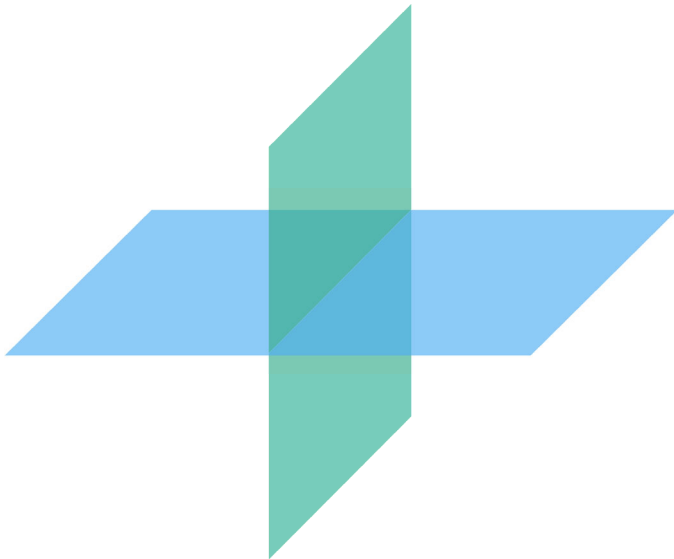
Coplanar –

DEFINITIONS

Space –

Intersection –

Intersecting Planes



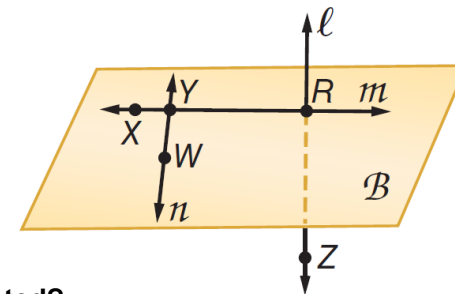
Drawing Intersecting Planes

Postulate 3

If two _____ planes
_____, then they _____
at exactly _____.

Practice

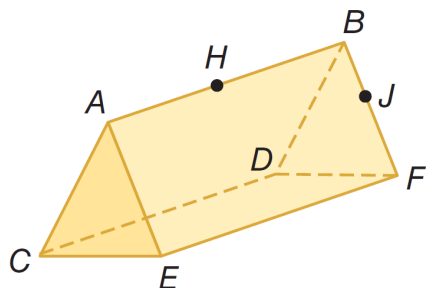
Use the figure for the following problems.



- 1) How many lines are illustrated?
- 2) Which line(s) intersects the plane at one point?
- 3) Which line(s) lie on Plane B .

Practice

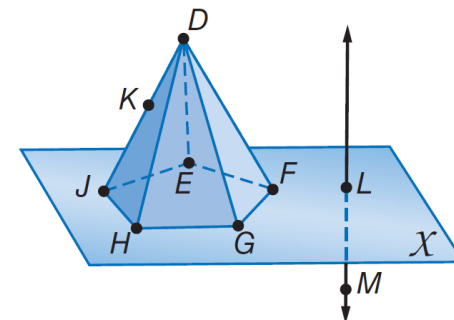
Use the figure for the following problems.



- 4) How many planes are shown in the figure?
- 5) Are points A, H, J, and D coplanar?
- 6) Are points B, D, and F coplanar?
- 7) What is the intersection of Plane JEF and Plane ACE?

Practice

Use the figure for the following problems.



- 8) How many planes appear in this figure?
- 9) Name three points that are collinear.
- 6) Name the intersection of plane HDG with plane X.
- 7) At what point do \overleftrightarrow{LM} and \overleftrightarrow{EF} intersect?