1.1

POINTS, LINES AND PLANES (DAY 2)

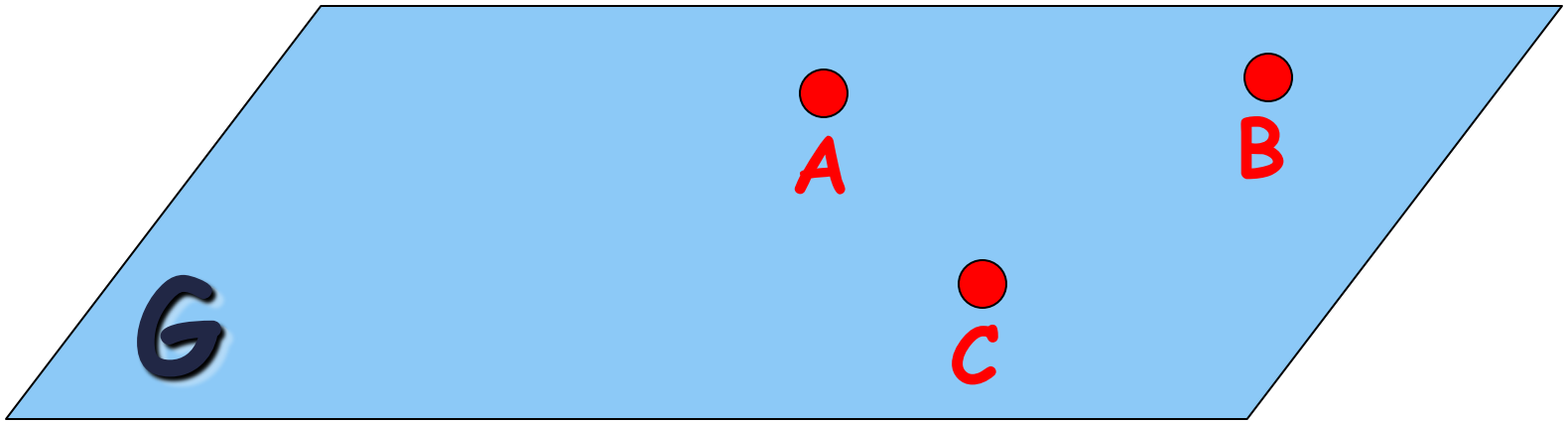
Postulate 1

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 –

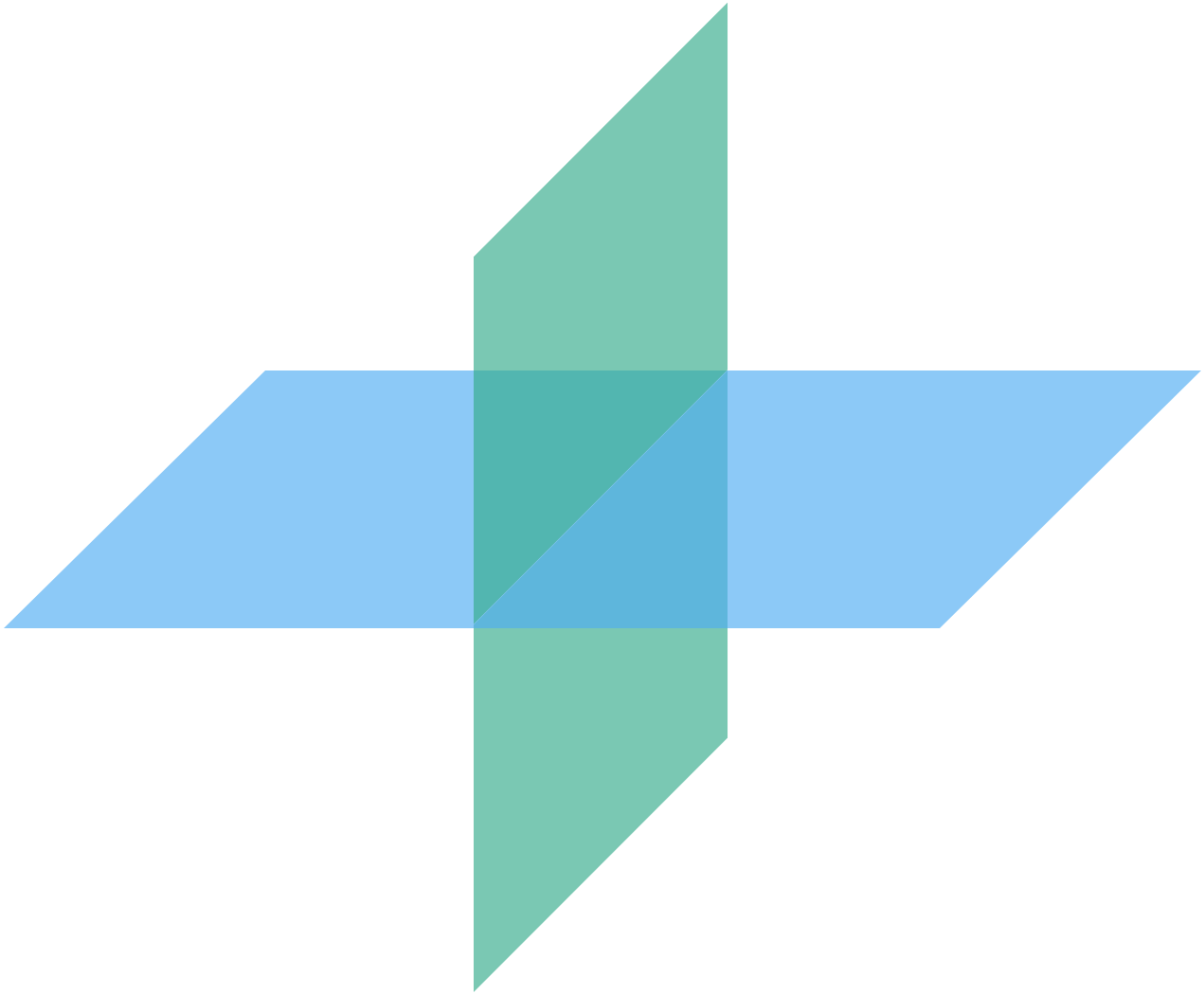
Coplanar –

DEFINITIONS

Space –

Intersection –

Intersecting Planes



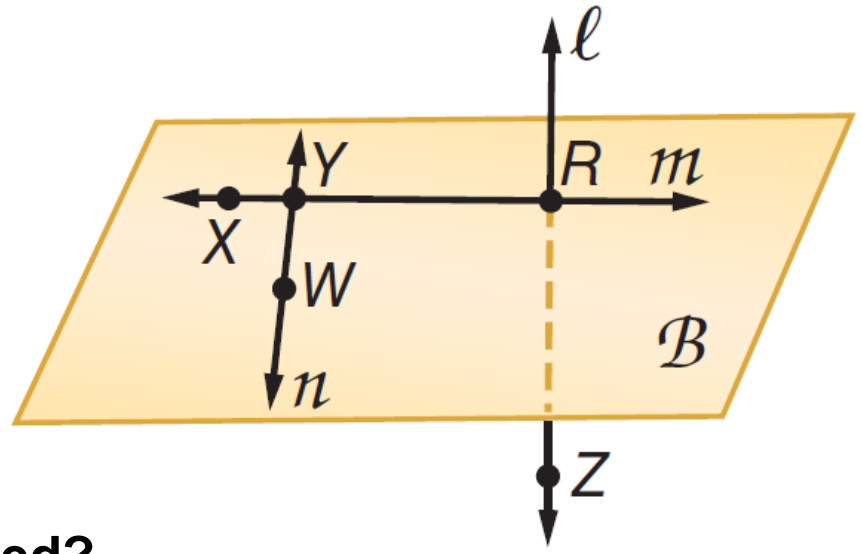
Drawing Intersecting Planes

Postulate 3

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

Practice

Use the figure for the following problems.



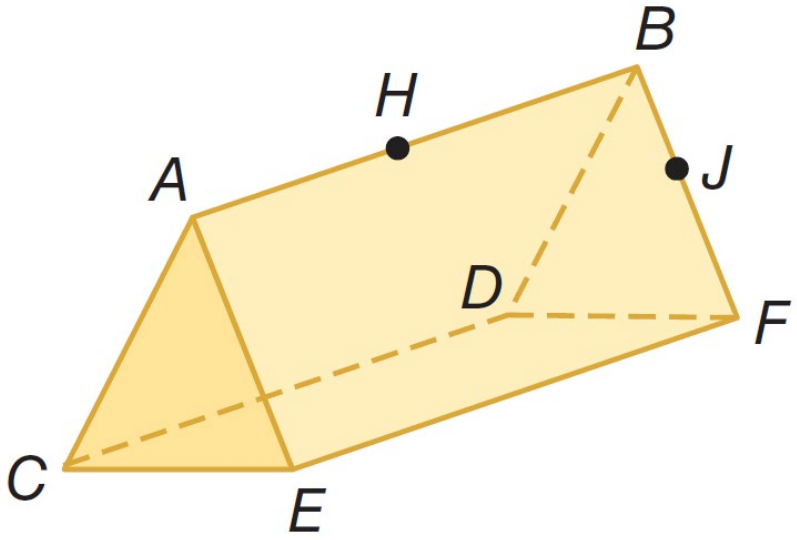
1) How many lines are illustrated?

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.



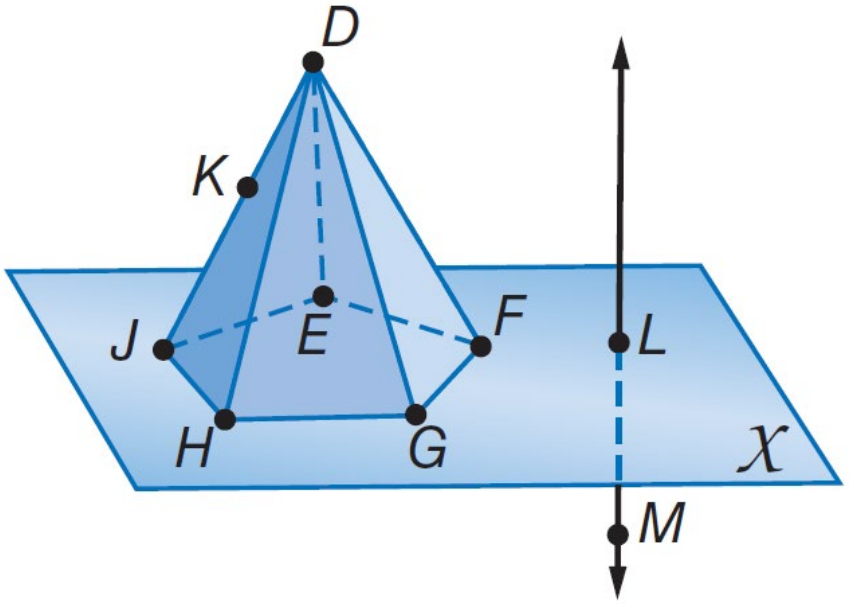
4) How many planes are shown in the figure?

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?