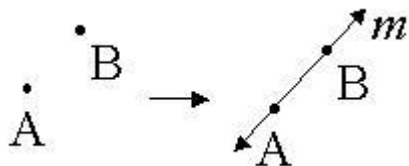


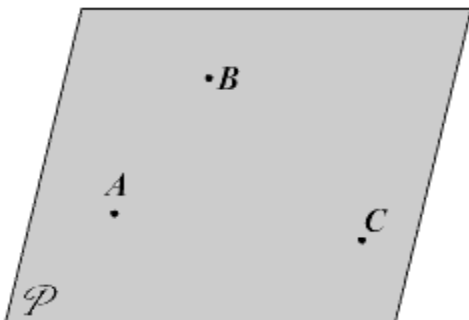
TOPIC 1-3: POSTULATES AND INTERSECTIONS

A **postulate**, or axiom, is a statement that is accepted as true without proof. Postulates about points, lines & planes help describe geometric properties

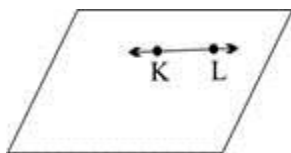
- Through any two points there is exactly one _____.
-



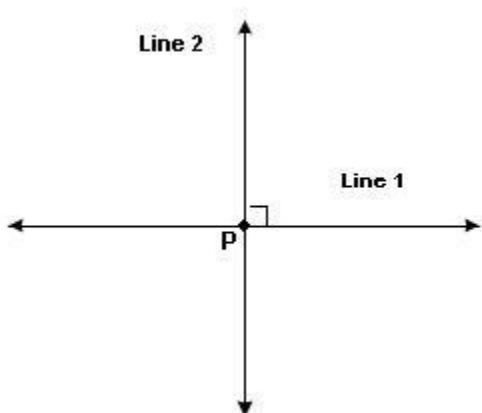
- Through any three NON-COLLINEAR points there is exactly one _____ containing them.



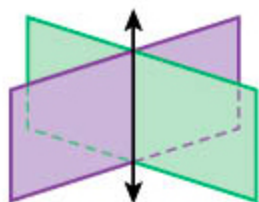
- If two points lie in a plane, then the line containing those points _____ in the plane.



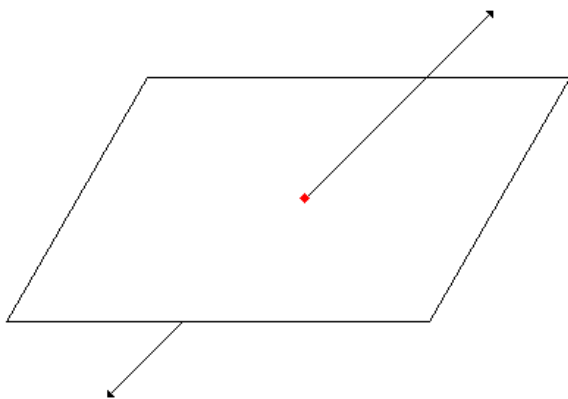
- If two lines intersect, then they intersect in exactly one _____.

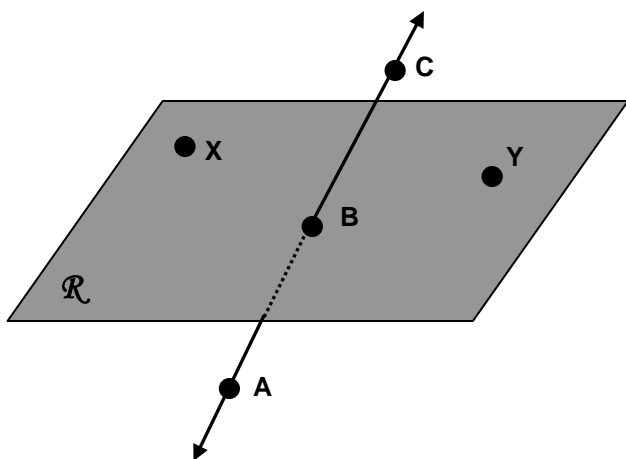


- If two planes intersect, then they intersect in exactly one _____.



- If a line intersects a plane and is not in the plane, then they intersect in exactly one _____.





THINGS WE KNOW FROM THE PICTURE:

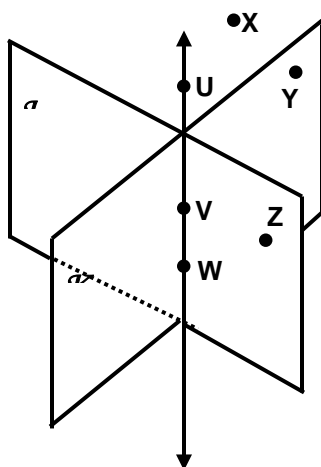
1) X, B and Y are _____.

2) A, B and C are _____.

3) \vec{BA} and \vec{BC} are _____.

4) X, B, Y and C are _____.

a) Name three points that determine plane j .



b) Name a set of collinear points, and a set of non-collinear points.

Collinear Points: Non-Collinear Points:

c) Name a set of points that are coplanar other than those in example a).