June 17, 2015

Geometry

Notes Section 1.1

Identify Points, Lines and Planes

Vocabulary

Point:
1) a location in space
2) no dimension
3) single capital letter

Line:
1) continuous set of points
2) 1 dimensional
3) 2 capital letters / 1 lowercase cursive

Plane:
1) continuous set of 2D points
2) 2 dimensional
3) single capital cursive letter / 3 capitals

Collinear: points on the same line

Coplanar: points in the same plane

Noncollinear: points not on the same line

Noncoplanar: points not in the same plane

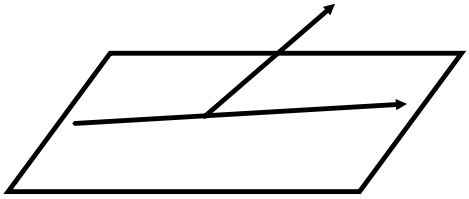
(Line) Segment: a line with 2 endpoints; 2 capital letters

Ray: part of a line with 1 endpoint; 2 capital letters (order matters)

Opposite Rays: 2 rays that have a common endpoint & form a line

Intersect: when 2 or more figures have a point or points in common; _____

Intersection: the set of points the figures have in common



Examples

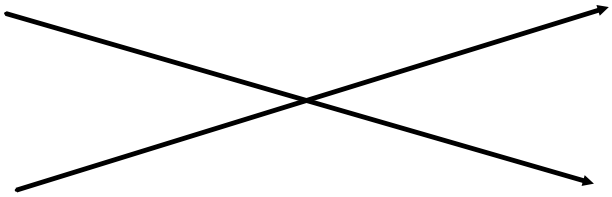
1 a) Give 2 names for PQ and for plane R

_____ _____

b) Name 3 points that are collinear _____

Name 4 points that are coplanar _____

Name 4 points that are noncoplanar _____



2a) Give another name for GH. _____

b) Name all rays with endoint J _____

Name a set of opposite rays _____

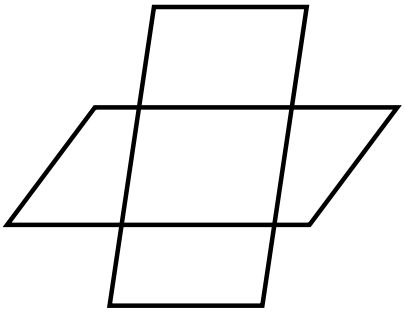
3. Sketch the following.

a) a line in a plane

b) a line that does not intersect the plane

c) a line that intersects plane at 1 point

d) 2 planes that intersect at 1 line



4) Name the intersection.

a) PQ and k _____

b) plane A and plane B _____

c) line k and plane A _____