

Honors 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

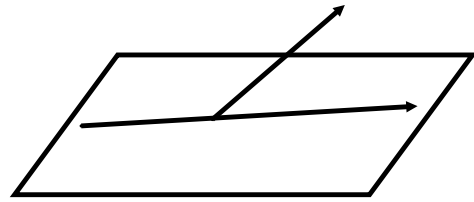
(Line) Segment: a line with 2 endpoints; 2 capital letters

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



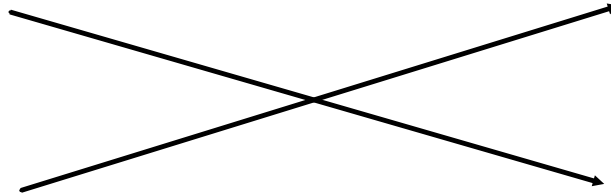
Examples

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 endpoint 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) \overline{PQ} and k

b) plane A and plane B

c) line k and plane A

