

## Section 1.1: Points, Lines, and Planes

Undefined terms: \_\_\_\_\_

\_\_\_\_\_

Undefined Term:	Agreed Upon Definition:	Example:	Name:

### Collinear points VS coplanar points

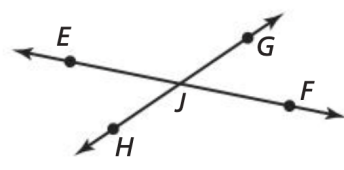
Collinear points: \_\_\_\_\_

Coplanar points: \_\_\_\_\_

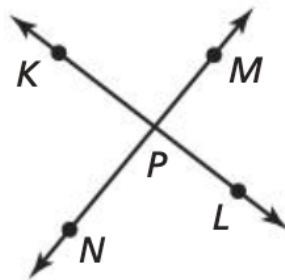
<p><b>a.</b> Give two other names for <math>\overleftrightarrow{PQ}</math> and plane <math>R</math>.</p> <p><b>b.</b> Name three points that are collinear. Name four points that are coplanar.</p>	
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Defined Terms: \_\_\_\_\_

Defined Term:	Definition:	Example:	Name:

<p>a. Give another name for <math>\overline{GH}</math>.</p> <p>b. Name all rays with endpoint <math>J</math>. Which of these rays are opposite rays?</p>	
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Use the diagram.

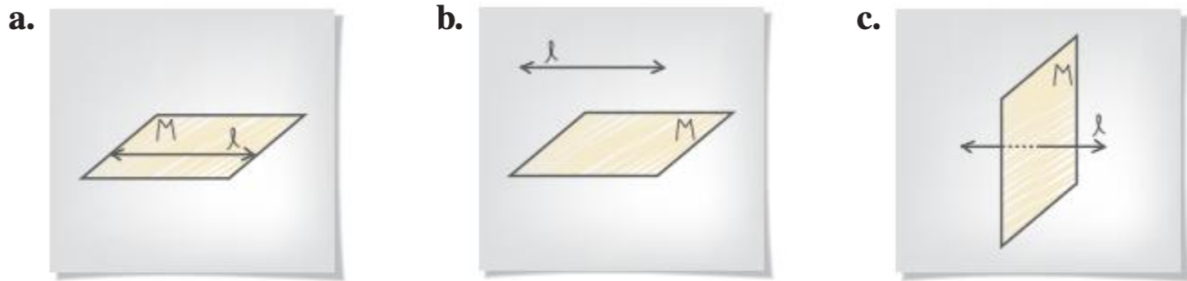


- Give another name for  $\overline{KL}$ .
- Are  $\vec{KP}$  and  $\vec{PK}$  the same ray? Are  $\vec{NP}$  and  $\vec{NM}$  the same ray? Explain.

Intersection: \_\_\_\_\_

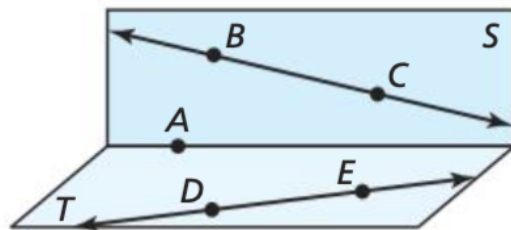
- Sketch a plane and a line that is in the plane.
- Sketch a plane and a line that does not intersect the plane.
- Sketch a plane and a line that intersects the plane at a point.

**SOLUTION**



Examples:

**In Exercises 3–6, use the diagram.**



- Name four points.
- Name two lines.
- Name the plane that contains points  $A$ ,  $B$ , and  $C$ .
- Name the plane that contains points  $A$ ,  $D$ , and  $E$ .