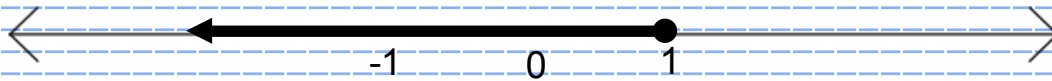


Bellwork
08/17/2011**Graph each inequality.**

1. $x \leq 1$



2. $-2 \leq x \leq 3$



3. $4 > -2x > -8$



Geometry

1.1 Identify Points, Lines, and Planes

Standard(s): 3, 8

Vocabulary:

1. Point: a point has no dimension (represented by a dot).



2. Line: a line has one dimension (represented by a line with two arrowheads, but it extends without end).



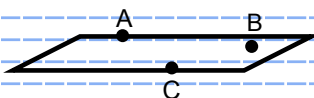
3. Plane: a plane has two dimensions (represented by a shape that looks like a floor, but extends without end).



4. Collinear points: points that lie on the same line.



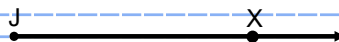
5. Coplanar points: points that lie in the same plane.



6. Segment: a line segment between two endpoints.



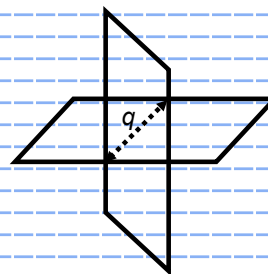
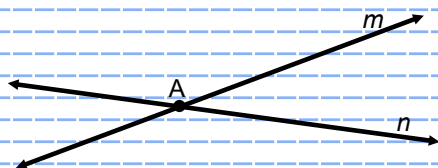
7. Ray: A segment that extends infinitely on one end.



8. Opposite Rays: If point C lies on line \overleftrightarrow{AB} between A and B, then \overrightarrow{CA} and \overrightarrow{CB} are opposite rays.



9. Intersection: The set of points two or more figures have in common.



Naming Points, Lines, and Planes

- A. Give two other names for \overleftrightarrow{BD} .

Line m , \overleftrightarrow{DB}

- B. Give another name for plane T.

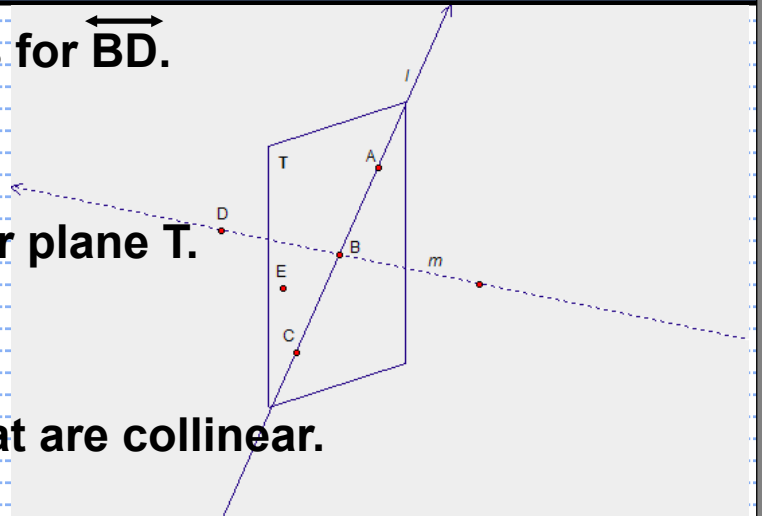
plane AEC

- C. Name three points that are collinear.

A, B, C

- D. Name four points that are coplanar.

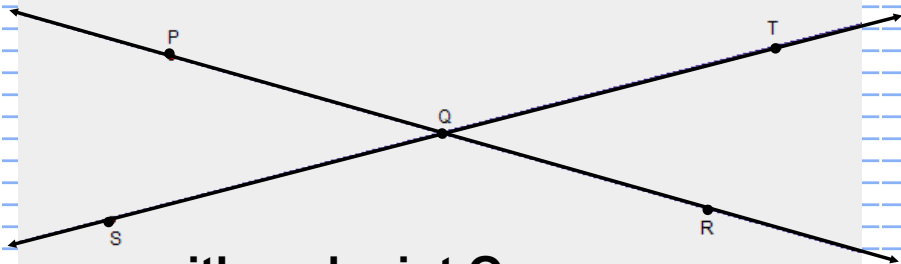
A, B, E, C



Naming Segments, Rays, and Opposite Rays

A. Give another name for \overline{PR} .

\overline{RP}



B. Name all the rays with endpoint Q.
Which of these rays are opposite rays?

\overrightarrow{QP} , \overrightarrow{QR} , \overrightarrow{QS} , \overrightarrow{QT}



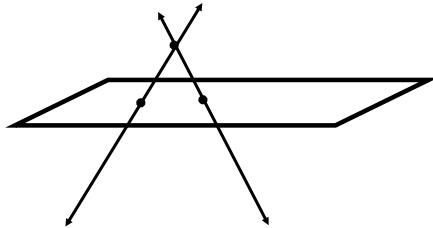
Opposite



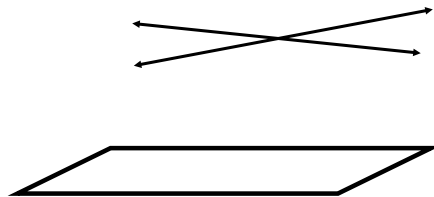
Opposite

Sketch Intersections of Lines and Planes

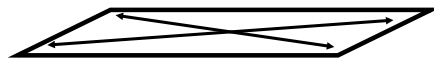
A. Sketch a plane and two intersecting lines that intersect the plane at separate points.



B. Sketch a plane and two intersecting lines that do not intersect the plane.



C. Sketch a plane and two intersecting lines that lie in the plane.

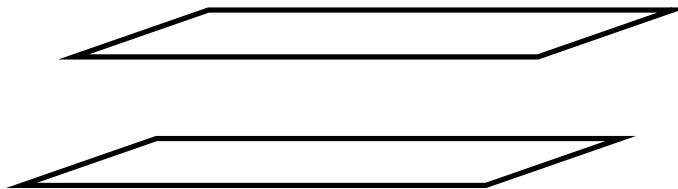


* Can a line intersect a plane in only two points? Why or why not?

No, that would look like a parabola, which is not a line.

Sketching Intersections of Planes

Sketch two planes that do not intersect in a line.



*** Can two planes intersect in a segment? Why or why not?**

No, because a plane extends infinitely.
Therefore, their line of intersection extends infinitely.

Homework Assignment

Worksheet 1.1B

