

GEOMETRY

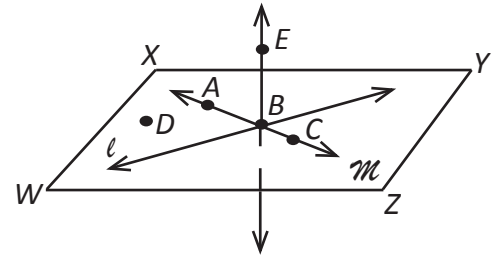
Note Sheet Free-Bee
Points, Lines and Planes

Points, Lines and Planes

How do you name a circle?

Definitions:

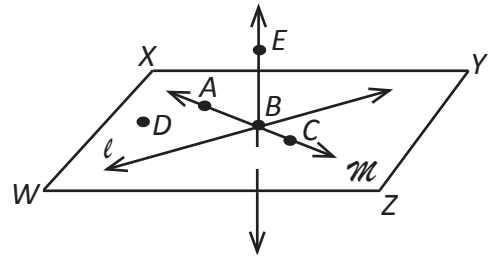
Use the picture to the right to fill in the table below.



Term	Definition	Ways to Label
Point		
Line		
Ray		
Segment		
Plane		
Skew		

What are collinear points?

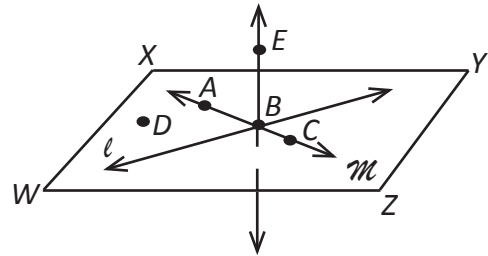
Definition



Are points A & D collinear?

What are coplanar points?

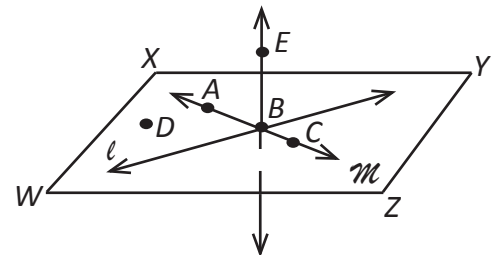
Definition



Are points A , B , C & E coplanar?

What are opposite rays?

Definition



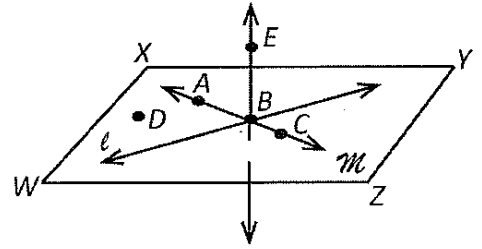
Describe the difference between lines that “intersect” a plane, versus lines that are “in” a plane.

Points, Lines and Planes

How do you name a circle?

Definitions:

Use the picture to the right to fill in the table below.

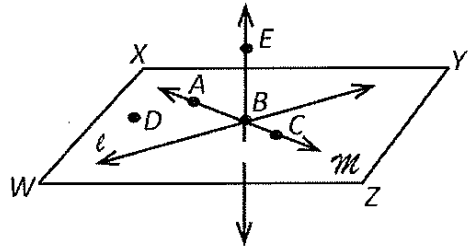


Term	Definition	Ways to Label
Point	A location in space has no size, only position	Capital Letter A, B, C
Line	- is straight - has no thickness - extends in both directions without end	Script letter or two points line \longleftrightarrow AB
Ray	- a line with a start point but no endpoint	start \rightarrow direction \overrightarrow{BA}
Segment	a portion of a line has length	two endpoints \overline{AB}
Plane	- two dimensional - extends infinitely	3 or 4 letters (clockwise) or 1 italic capital letter WXYZ or Plane M

What are collinear points?

Definition

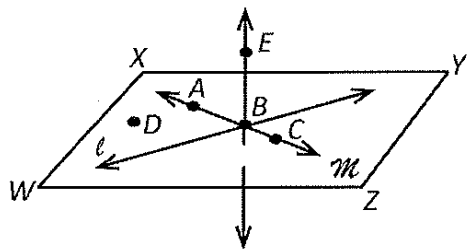
Points on the same line



Are points A & D collinear? Yes, any two points are always collinear.

What are coplanar points?

Definition Points on the same plane

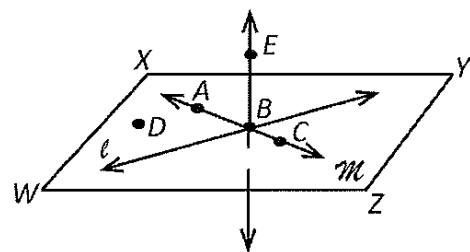


Are points A, B, C & E coplanar? Yes. Any two lines will always form a plane

What are opposite rays?

Definition - Share an endpoint and create a line.

Ex: \overrightarrow{BA} and \overrightarrow{BC}



Describe the difference between lines that "intersect" a plane, versus lines that are "in" a plane.

intersect \rightarrow goes through (Ex: \overleftrightarrow{EB} intersects M.)
in \rightarrow lines on top of (Ex: line l is in M)