

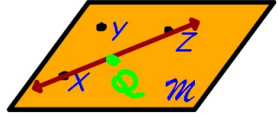


Lesson 1-1 Points, Lines, and Planes

UNDEFINED	Point ₁	Line ₂	Planes ₃
Model			
Drawn	As a dot	line w/ an arrowhead at each end	As a shaded, slanted, 4 sided figure
Named by	A capital letter	letters representing two pts on the line or a lowercase script letter	capital script letter or by the letters naming three noncollinear pts
Facts	A point has neither shape nor size	There is exactly one line through any 2pts	There is exactly one plane thru any three noncollinear pts
Words/Symbols	<p>Q</p> <p>point Q</p> <p>pt Q</p>	<p>line a</p> <p>line AB or \overleftrightarrow{AB}</p> <p>line BA or \overleftrightarrow{BA}</p>	<p>plane M, plane XYZ,</p> <p>plane XZY, plane YXZ</p> <p>plane YZX, plane ZXY</p> <p>plane ZYX <i>Not XYZ</i></p>

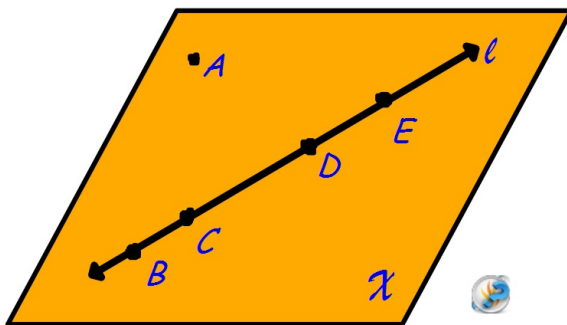
Collinear - points on the same line

Noncollinear - set of points where not all are on the same line

Coplanar - points that lie in the same plane

Noncoplanar - set of points where not all lie in the same plane

Ex A.



a. Name a line containing pt D.

\overleftrightarrow{CE} , l , \overleftrightarrow{AB}

b. Name a plane containing pt A.

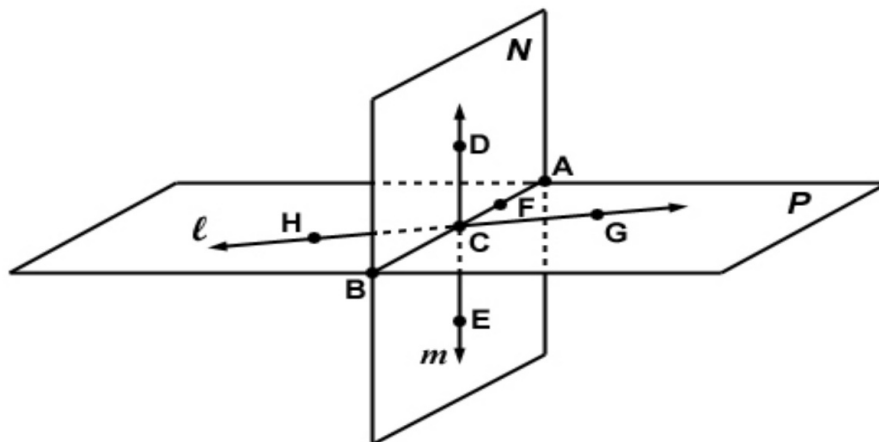
X , ~~$BODE$~~ , ABC

Ex B. Looking around the room, name stuff that models:

Point - Sprinkler head, tacks

Line - Ceiling dividers, side of door

Plane - desk top, book, ...



- Name two points collinear with G . C, H
- Name a point coplanar with line l . B, F, A
- Name the intersection of lines HG and ED . C
- Name the intersection of plane N and plane P . BA
- State another name for line CD . DE, m
- Name two points that are in Plane P , but not in plane N . H, G