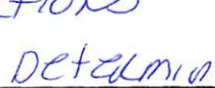
1.1 Points, Lines and Planes

Objective: to identify and model points lines and planes. To identify intersecting lines and planes.

Homework: pg 9-10: 13-49 all ,52, 59

Point A LOCATION in space named by capital Letter ·A

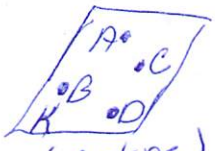
Line Determined by Aleast 2 points extends infinitely in Both directions (NOTATION) $\overleftrightarrow{XY}$



Plane · A FLAT SURFACE Determined by 3 non collinear points

named by 3 points not on same Line

extends infinitely in Both directions (Length, width)



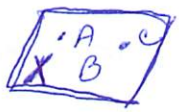
(picture)

plane ABCD
plane ABC
plane BDC
plane K
NOTATION

COLLINEAR points that lie on same line

COLINEAR points A, B, C

COPLANAR points that lie on same plane



points A, B, C ARE COPLANAR

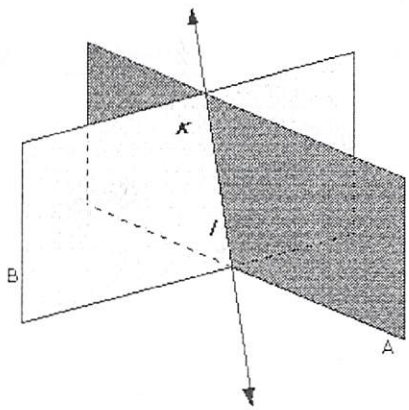
Two lines intersect in a point

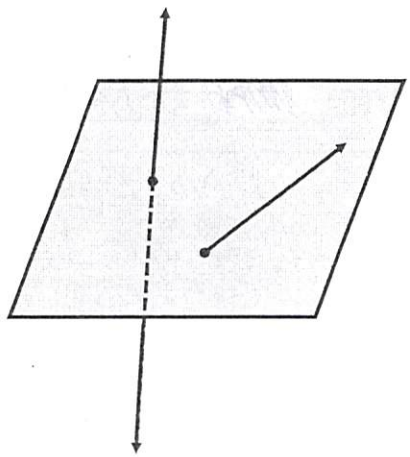
Two planes intersect in Line

A line and a plane intersect in point

SPACE: 3 DIMENSIONAL
Set of all points
contains lines : planes : points

Try and drawn picture like this on your notes





Practice 40-48 pg 8