

1.1

Euclid

Euclidean Geometry

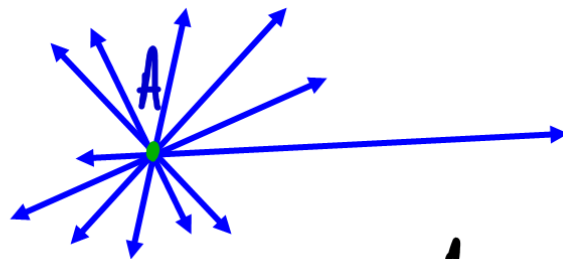
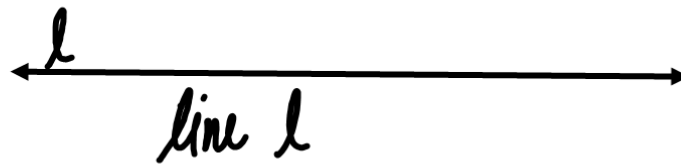
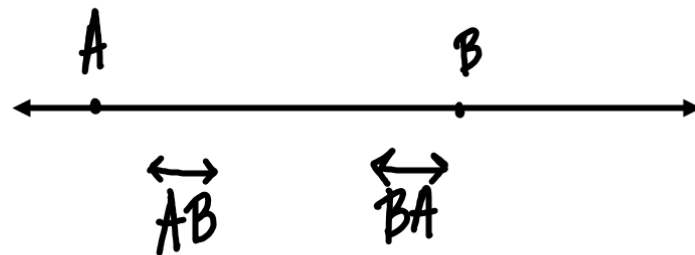
Point represented with a dot
indicates a location

NO size

• A

Capital letter
beside dot

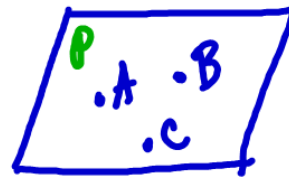
Line Set of points extending indefinitely in opposite directions



2 points determine a line

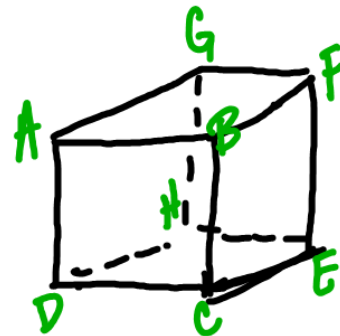
Plane set of ^{noncollinear} points
 forming a flat surface that
 indefinitely in all directions

3 points determine a plane



Plane ABC
 \square ABC

Plane P



No
 Thickness

collinear points on the
same line



noncollinear points not on
the same line



coplanar points on the same
plane

non coplanar points not on the
same plane

Line Segment

Segment

part of a line
d endpoints



Named by endpoints

\overline{AB}

\overline{BA}

Can be measured