

3 UNDEFINED Terms
Point, Line, and Plane

description / describe

Pt
A •

line
x y
or
l

Plane
or
g

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3 UNDEFINED Terms
Point, Line, and Plane

Geo/metry

Building Blocks of Geometry

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Def. POINT

A point is a figure that represents a **POSITION** in space.

The symbol for pt. is a •

To name a pt., you use the symbol for pt. followed by a capital letter.

• B

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Def. of Line

A figure made up of an infinite number pts. that extend infinitely in both directions.

The symbol for line is \longleftrightarrow

To Name a line there are 2 options:

1. Use any 2 pts. on the line with the symbol for line above them.

ex. \longleftrightarrow
 A B
 \overleftrightarrow{AB}

2. Assign the entire line a lower case letter, then use that letter with the word Line.

ex. \longleftrightarrow
 l

Line l

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Def. Collinear Pts.

3 Pts. that lie on the same line

Test

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Def. Noncollinear pts.

3 Pts. that do not lie on the same line

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Def. of Plane

A plane is a 2-dimensional surface that extends indefinitely in all directions.

There is no symbol for plane, we only use a 4 sided figure to model a plane.

To name a plane there are 2 options:

1. Use the word plane followed by 3 noncollinear pts.

ex. Plane ABC

2. Assign a capital letter to the entire plane, and use that letter after the word plane.

ex. Plane R

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Def. Coplanar pts.

All⁴ pts. that lie in the same plane

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Def. Noncoplanar pts.

Pts⁴ that do not lie in the same plane.

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Intersection

The set of pts. that is contained in 2 or more figures.

What is the intersection of 2 lines?

a point

What is the intersection of 2 planes?

a line

What is the intersection of a line and a plane?

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Def. Locus

A set of pts. that satisfy a particular condition.

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