

1.1

POINTS, LINES, AND PLANES (DAY 1)

Groupwork

With your partner try to define the following:

- **Point**
- **Line**
- **Plane**

What is a definition?

What do you call something
that can't be defined?

Representations of Geometric Elements

Point



“Point A”

Postulates

- In order to start thinking about geometric concepts, we need to start from somewhere
- This will help build our knowledge
- Almost all the concepts is built upon these foundational precepts
- Also known as “_____.” They are synonyms.

Postulate 1

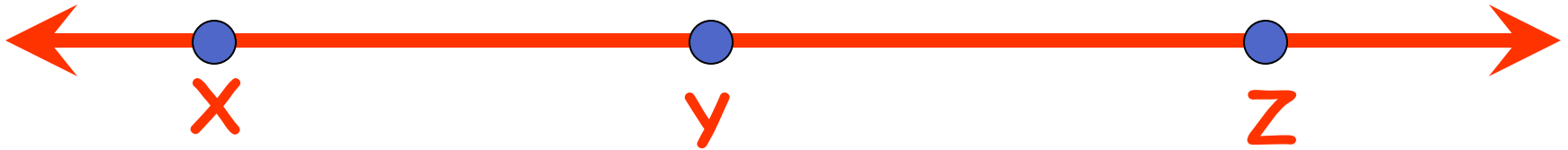


Through any _____ points
there is exactly _____.

Postulate 2

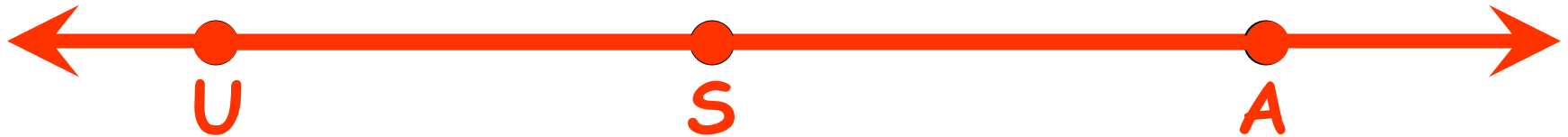
If two _____ lines
_____, then they _____
at exactly _____.

Naming Lines



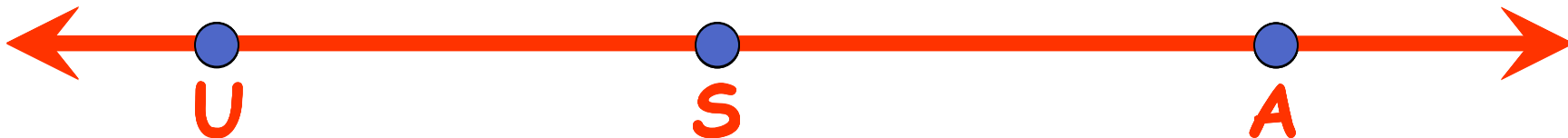
Naming Line Segments

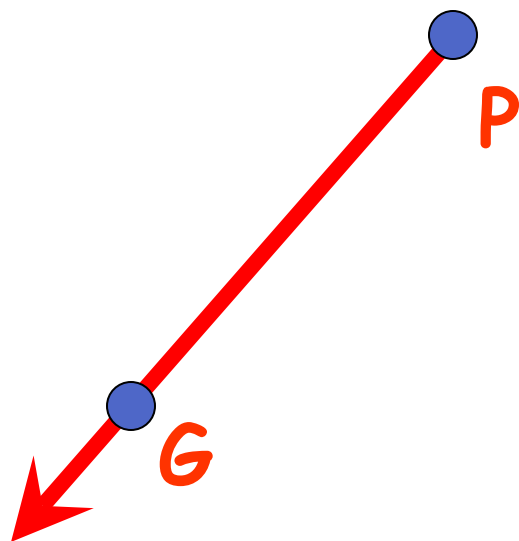
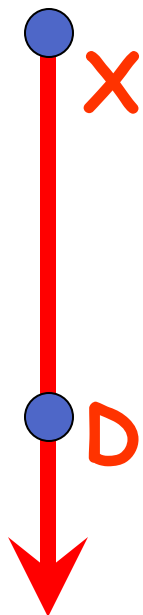
To name a line segment, it is very similar. Just pick 2 points.



Naming Rays

Rays - Part of a line that consists of one endpoint and all the points of the line on one side of the endpoint.

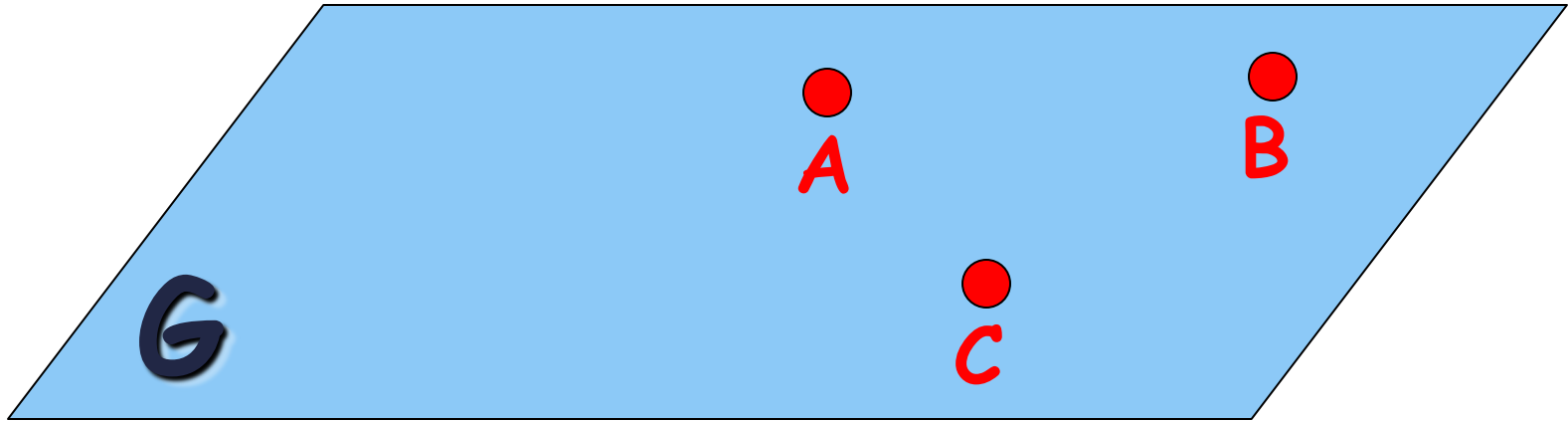




Different Direction Different Name



Naming Planes



- To name any plane, pick any 3 points!
- Using a single cursive or italicized letter not associated with a point on the plane