Intro to Geometry August 02, 2018

Warm-up

-"Rip" off the signature/student info page of your syllabus and keep on desk

Undefined Terms of Geometry

Point

- · Represents a location in space.
- · Has no length, no width, no thickness.
- · Symbolized as a dot.
- · Named with a capital letter.

Line

- · Has no thickness.
- · Represents an infinite set of points extending in opposite directions.
- · Named using 2 points on the line.

Plane

·Represents an infinite Flat surface.

. Has no thickness.

· Named using 3 letters on the plane

<u>Segment</u>

The part of a line between 2 pts on the line. GH

Ray

The part of a line that begins at a point and extends infinitely in one direction.

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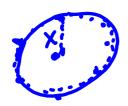
Angle

A figure formed by 2 rays that share a common endpoint.

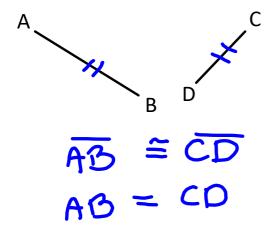
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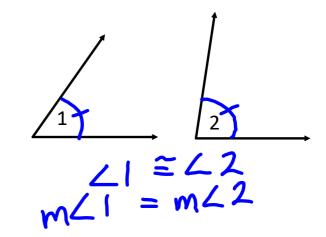
<u>Circle</u>

The set of all points in a plane that are equidistant from a given point.



Two Figures are CONGRUENT if they have the same shape, size, and measure.





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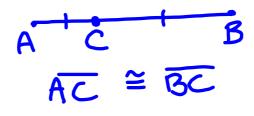
Given: △ABC ≅△X YZ

Corresponding Sides: $3Z \cong \overline{YZ}$ $\overline{AG} \cong \overline{XY}$ $\overline{AC} \cong \overline{XZ}$

Corresponding Angles:

A point, segment, ray, or line that divides a figure into two congruent parts BISECTS that figure.

Segment Bisector:



Angle Bisector:

YQ is a bisector of LXYZ.

LXYQ =LZYQ

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Two lines are PARALLEL if they lie in the same plane and do not intersect.



Two lines are PERPENDICULAR if they intersect to Form 4 right angles.

To Form 4 right angles.

