

Geometry CC – Unit 1
 Lesson 1: Basic Geometric Symbols

Name: _____
 Date: _____

Let's look at some Geometric Symbols and how we interpret them!

\angle

\angle



Geometric Symbol	Interpretation	Example
\angle or \sphericalangle or \sphericalangle	Angle	$\sphericalangle ABC$
\triangle or Δ	Triangle	$\triangle DEF$
capital letter	Point	point A
\leftrightarrow	Line	\overleftrightarrow{AB}
—	Line Segment	\overline{CD}
\rightarrow or \leftarrow	Ray	\overrightarrow{AB} \overleftarrow{CD}
\parallel	Parallel	$\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$
\perp	Perpendicular	$\overline{AB} \perp \overline{CD}$
\cong	Congruent	$\overline{AB} \cong \overline{CD}$
\sim	Similar	$\triangle ABC \sim \triangle DEF$

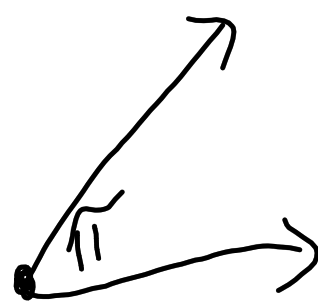
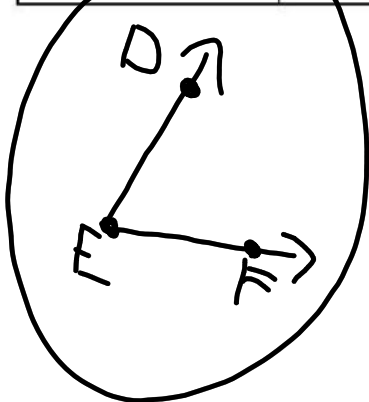


$2 = 2$

$2 \neq 2$

Angles!

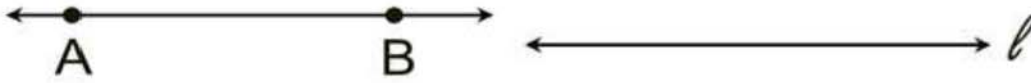
<p>$\sphericalangle ABC$ or $\sphericalangle CBA$ Angles are labeled by specifying 3 points, with the center point being the vertex of the angle. This angle is NOT $\sphericalangle ACB$.</p>	<p>$\sphericalangle A$ Angles may be labeled with a single letter at the vertex, as long as it is perfectly clear that there is only one angle at this vertex.</p>	<p>$\sphericalangle a$ and $\sphericalangle \theta$ Angles may be represented by a single lower case letter or by a Greek letter, as long as it is clear which angle is being referenced.</p>	<p>$\sphericalangle 1$ and $\sphericalangle 2$ Angles may also be represented by numbers, as long as it is clear to which angle the number applies.</p>
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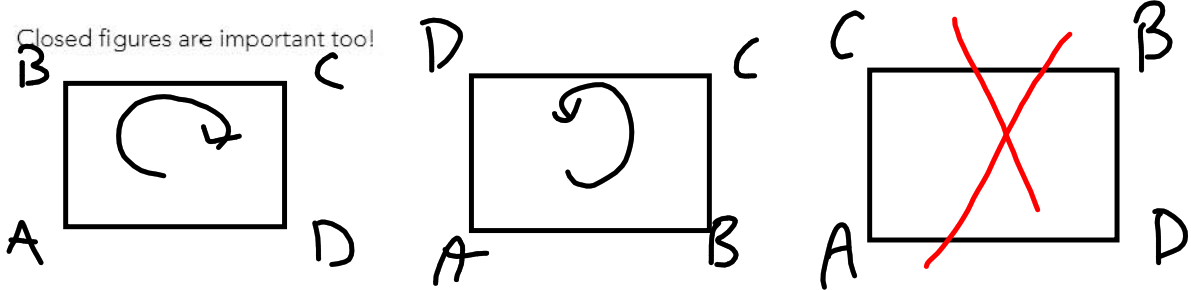
\longleftrightarrow
AB

line l

How about lines?



Closed figures are important too!



Triangles:

<p>$\triangle ABC$ or $\triangle BCA$ or any other three letter combination of A, B and C will apply to this triangle.</p>	<p>When using letters to refer to the sides of a triangle, it is customary to label the sides as small case letters. Across from the vertex labeled capital A will be the side labeled small case a, and so on.</p>	<p>A right triangle is designated with a "box" drawn in the location of the right angle.</p>
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Parallels and Perpendiculars:

