

Geometry—Segment 1 Reference Sheet

Module 1

* **Constructions** are the most accurate and detailed depiction, followed by **drawings** and then **sketches**.

* **Undefined terms** will be used as foundational elements in defining other "defined" terms. The undefined terms include point, line, and plane.

Algebraic Properties	Example
Commutative (of addition and mult.)	$3 + 2 + 5 = 5 + 2 + 3$
Associative (of addition and mult.)	$6 \times 5 \times 2 = (6 \times 5) \times 2$
Distributive	$4(x - 2) = 4x - 8$
Symmetric	$x = y$ and $y = x$
Transitive	If $a = b$ and $b = c$, then $a = c$
Reflexive	$a = a$

* You will need many **tools** for geometry such as a compass and straightedge, writing utensil, geometric drawing software, and even paper.

* A **postulate** is considered a known fact. **Theorems** must be proven to be true.

* **Negation**: starting the opposite of a statement

* **If-conditional**: statement in the form "if and only if"

Sample Conditional Statement <i>if it is cloudy outside, then it is raining.</i>	
Inverse	Opposite of the original but in the same order <i>if it is not cloudy outside, then it is not raining.</i>
Converse	Same as the original, but in a different order <i>if it is raining, then it is cloudy outside.</i>
Contrapositive (logically equivalent)	Opposite of the original AND in a different order <i>if it is not raining, then it is not cloudy outside.</i>

Module 2

Transformations Rules	
Translations	$(x, y) \rightarrow (x+1, y-2)$ sample
Reflections	x -axis: $(x, y) \rightarrow (x, -y)$ y -axis: $(x, y) \rightarrow (-x, y)$ line $y=x$: $(x, y) \rightarrow (y, x)$
Rotations	90° clockwise: $(x, y) \rightarrow (y, -x)$ 90° counterclockwise: $(x, y) \rightarrow (-y, x)$ 180°: $(x, y) \rightarrow (-x, -y)$

* **Translational**: pattern is moved Δ , ∇ , \leftarrow , or \rightarrow without changing.

* **Reflectional**: pattern may be flipped over a line without changing.

* **Rotational**: pattern may be turned about a fixed point without changing.

Corresponding parts of triangles can be labeled for all six parts of two triangles. You need a minimum of **3 specific parts** to declare two triangles congruent using SSS, SAS, or ASA.

* **Side-Side-Side, SSS**: If the corresponding sides of one triangle are congruent to the corresponding sides of a second triangle, then the triangles are congruent.

* **Side-Angle-Side, SAS**: If two corresponding sides and the included angle of one triangle are congruent to two corresponding sides and the included angle of another triangle, then the triangles are congruent.

* **Angle-Side-Angle, ASA**: If two corresponding angles and the included side of one triangle are congruent to two corresponding angles and the included side of another triangle, the triangles are congruent.

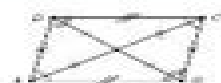
Module 3



- 1 & 2 are **adjacent angles** (supplementary)
- 1 & 3 are **vertical angles** (congruent)
- 1 & 5 are **corresponding angles** (congruent)
- 4 & 5 are **same-side interior angles** (supplementary)
- 1 & 8 are **same-side exterior angles** (supplementary)
- 4 & 6 are **alternate interior angles** (congruent)

Properties of a parallelogram:

- The opposite sides are congruent and parallel
- The opposite angles are congruent
- The diagonals bisect each other
- Consecutive angles are supplementary



Properties of a Rectangle:

- Properties 1 through 4 of a parallelogram and
- Contains four right angles
 - The diagonals are congruent



Steps for creating an Indirect Proof:

- Assume** the opposite of the conclusion (or prove statement).
- Reason logically** to show the assumption leads to a contradiction of a known fact. Be sure to explain your whys.
- Conclude** the assumption is false, which in turn proves the conclusion is true.

* **Triangle sum theorem**: The sum of the measures of the angles in a triangle will always add up to 180 degrees.



* **Isosceles Triangle Theorem**: If two sides of a triangle are congruent, the angles opposite them are congruent.



* **Converse**: If two angles of a triangle are congruent, the sides opposite them are congruent.



* **Equidistance of a point on a perpendicular bisector of a segment**: A point that lies on the perpendicular bisector of a line segment is equidistant (or the same distance away) from the endpoints of the line segment.



* **Mid-segment of a Triangle Theorem**: A line segment connecting the midpoints of two sides of any triangle is parallel to the third side and half its length.



* **Concurrency of Medians Theorem**: The three medians of any triangle intersect at one point called the centroid.

Flvs Geometry Segment 1 Exam Answers

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