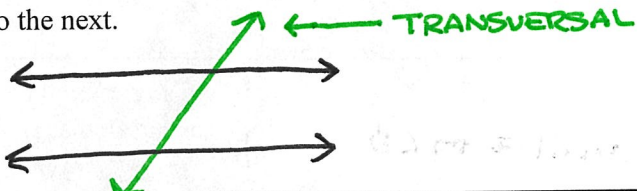

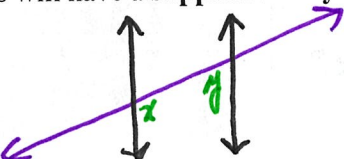
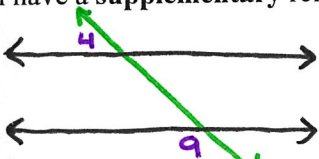
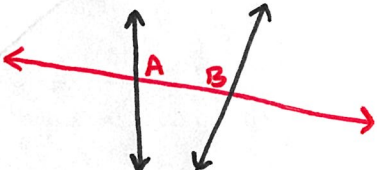
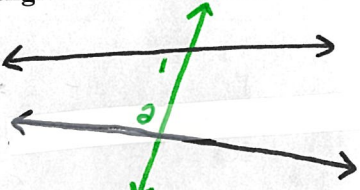
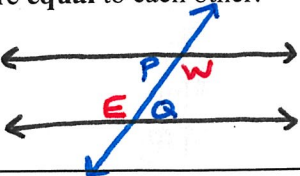
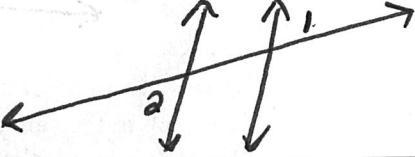
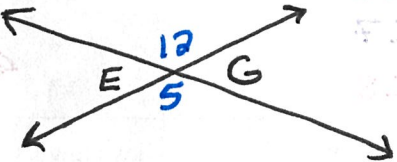



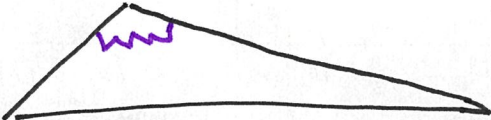





Vocabulary	Definition
Transversal	<p>This is what one calls the line that cuts through a set of parallel lines. One often uses this line to carry attributes from one of the parallel lines to the next.</p> 
Corresponding Angles $\angle 1 \cong \angle 5$ $\angle 2 \cong \angle 6$ $\angle 3 \cong \angle 7$ $\angle 4 \cong \angle 8$	<p>One uses this to describe any two angles on the same side of the transversal, in the same position, that will fall on different lines but will be congruent if the lines are parallel.</p> 
Consecutive Interior $m\angle x + m\angle y = 180^\circ$	<p>Two angles on the same side of the transversal on the inside of the parallel lines will have a supplementary relationship.</p> 
Consecutive Exterior $m\angle 4 + m\angle 9 = 180^\circ$	<p>Two angles on the same side of the transversal on the outside of the parallel lines will have a supplementary relationship.</p> 
The lines will diverge on this side of the transversal $m\angle A + m\angle B > 180^\circ$	<p>This is the result of having a set of lines and a transversal where the consecutive angles are greater than 180°</p> 
The lines will converge on this side of the transversal $m\angle 1 + m\angle 2 < 180^\circ$	<p>This is the result of having a set of lines and a transversal where the consecutive angles are less than 180°</p> 

<p>Alternate Interior</p> $\angle P \cong \angle Q$ $\angle W \cong \angle E$	<p>Two angles on the opposite sides of the transversal, inside the parallel lines, that are equal to each other.</p> 
<p>Alternate Exterior</p> $m\angle 1 = m\angle 2$	<p>Two angles on the outside of parallel lines, on opposite sides of the transversal, that are equal to each other.</p> 
<p>Vertical Angles</p> $\angle E \cong \angle G$ $m\angle 12 = m\angle 5$	<p>Two intersecting lines create angles that are opposite and equal to each other.</p> 
<p>Linear Pair</p> $m\angle 3 + m\angle 4 = 180^\circ$	<p>A set of angles that add up to 180° and will create a line.</p> 
<p>Angle Sum for Triangle</p>	<p>The sum of all interior angles in a triangle shall equal 180°</p>  $\angle A + \angle B + \angle C = 180^\circ$
<p>Angle Sum for Quadrilaterals</p>	<p>The sum interior angle for a convex quadrilateral will equal 360°</p>  $\sum \angle s = 360^\circ$
<p>Summit Angle</p>	<p>The angle at the top of the triangle.</p> 
<p>Base Angles</p>	<p>The angles at the bottom of a triangle.</p> 

<p>Exterior Angle Theorem</p> $m\angle C = m\angle W + m\angle P$	<p>The two angles farthest from the exterior of the triangle, when added together, will give you the value of the exterior angle.</p> 
<p>Supplementary angles</p> $m\angle x + m\angle y = 180^\circ$	<p>When two angles add up to 180°</p> 
<p>Complementary angles</p> $m\angle 1 + m\angle 2 = 90^\circ$	<p>When two angles add up to 90°</p> 