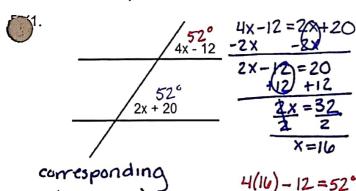
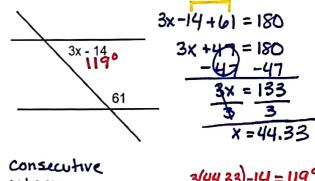
GUIDED NOTES: Geometric Properties

	Important Vocabulary	Picture
Vertical Angles: Congruent Linear Pair: Supplementary Corresponding	two angles that are directly across from each other and share a vertex 21+24 22+23 25+28 26+27 two angles that form a line 21+22 21+23 25+26 25+27 23+24 22+24 27+28 26+28 two angles in the same position on different	ransversal
Angles: Alternate Interior Angles: Angles:	parallel lines 21+25	$ \begin{array}{c c} 1/2 \\ \hline 3/4 \end{array} $ $ \begin{array}{c} 5/6 \\ \hline 7/8 \end{array} $
Alternate Exterior	two angles outside parallel lines and on different sides of the transversal	√
Consecutive Interior Angles: Supplementary	two angles between parallel lines and on the same side of the transversal 23+45 24+46 two angles outside parallel lines and on the	
Consecutive Exterior Angles:	same side of the transversal	

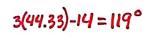
EX2.

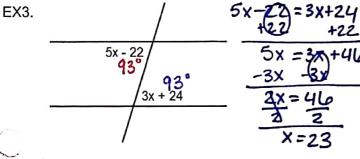


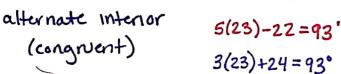


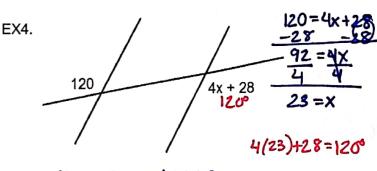


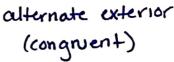




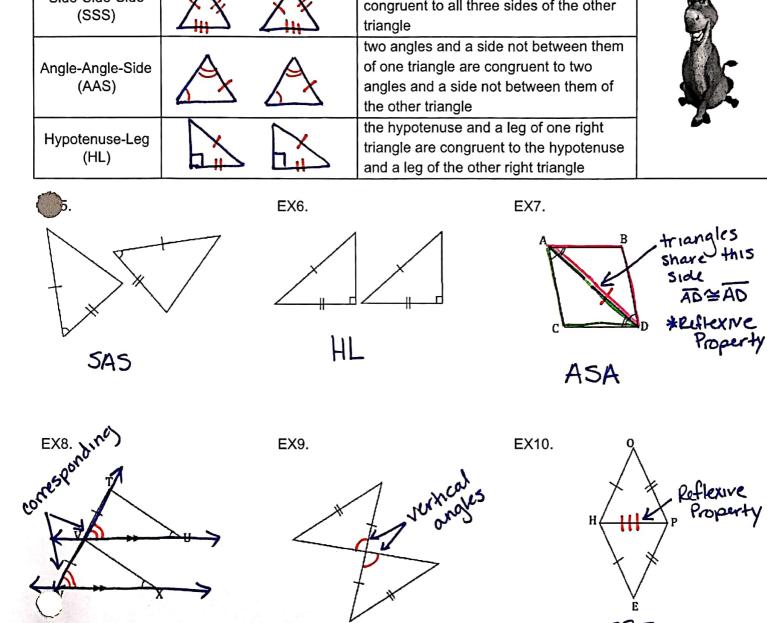


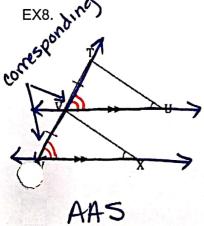






Triangle Congruence					
Name:	Picture		Definition		
Angle-Side-Angle (ASA)			two angles and the side between them of one triangle are congruent to two angles and the side between them of the other triangle	The Donkey Theorem: You can't travel	
Side-Angle-Side (SAS)		M	two sides and the angle between them of one triangle are congruent to two sides and the angle between them of the other triangle (AAA) by Donkey (SSA) to triangle congruence!		
Side-Side-Side (SSS)	(SSS)		all three sides of one triangle are congruent to all three sides of the other triangle		
Angle-Angle-Side (AAS)			two angles and a side not between them of one triangle are congruent to two angles and a side not between them of the other triangle		
Hypotenuse-Leg (HL)	7		the hypotenuse and a leg of one right triangle are congruent to the hypotenuse and a leg of the other right triangle	5	





not possible to prove congruent