## **H.Geometry - Chapter 4 - Definition Sheet**

	Se	ection 4.1
Triangle Sum Theorem	The sum of the mea	sure of the angles in a triangle is $180^{\circ}$
PROOF:	GUEN: MY	= m L 4
	m L 2	= M L 5
F	PROVE: M L	3 = ML6
		F 6
Conclusions		Justification
0. m L 1 = m L 4 m L 2 = m L 5		o. Given
1. m < 1 + m < 2 + m < 3 = 180° m < 4 + m < 5 + m < 6 = 180°		1. Triangle Sum Theorem
2.mc/+mc2+mc3= mc4+mc5+mc6		2. Substitution
3. m23 = m26		3. Addition POE.
Third Angle Theorem	If two angles in one triangle are <u>equal in measure</u> to two angles	
		en the <u>Hnird angleS</u> in each triangle are ed
	measure to each ot	her