Playing with (new) Definitions

inspired by Jeffrey Week's chapter 3 in $\it The Shape of Space 2nd ed.$

1. For each pair of manifolds determine if they have the same local geometries, local topologies, global geometries, or global topologies.

	2D Plane	Flat Torus	Donut Surface
2D Plane			
		same local geometry	
		same local topology	
		different global geometries	
		different global topologies	
Flat Torus			
Donut Surface			