Name _____

Platonic Solids and the Euler Characteristic

Fill out the table below and compute the Euler Characteristic $V - E + F$ for each Platonic Solid

Platonic Solid	# of Vertices V	# of Edges E	# of Faces F	Euler Characteristic $V - E + F$
Tetrahedron				
Cube				
Octahedron				
Dodecahedron				
Icosahedron				

This result mean that all Platonic Solids are topologically equivalent to _____