

Math 10460 - Honors Mathematics II

Homework 11c - Due Wednesday, April 13

You must show your work in all of the problems!!!

Recall that S^2 is the sphere, \mathbb{T} is the torus, and \mathbb{K} is the Klein bottle.

- (9) Find the Euler characteristic of $\mathbb{T} \# \mathbb{T}$.
- (10) Repeat the method of the proof of Euler's polyhedron formula for the dodecahedron. (In class, we did this for the cube.)