

Math 10460 - Honors Mathematics II

Homework 12a - Due Wednesday, April 20

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.

- (1) Complete the proof from class that there are only 5 Platonic solids by examining the cases when $n = 4$ and $n = 5$ and filling in the chart

n	c	Platonic Solid
3	3	
3	4	
3	5	
4		
\vdots		
5		
\vdots		