

Space: Its Light, Its Shape.

Chapter 5: Connected Sums

Assignment:

- Read Chapter 5.
- **For Wednesday, January 26, 2005:** We may or may not get to this material on Jan. 26, but you should be reading with at least the beginning of this material. Though everyone is responsible for reading all of the material and for working out all of the exercises, teams have been specific material and exercises for which they are responsible in class presentations. You may want to come to class early to firm up and smooth out the exercises with your teammates.

Team 2: Explain how the Flatlanders mapped the “Reversing Region,” the conclusion they reached and how they reached it.

Team 3: Define the connected sum of two manifolds. Which types are properties are we concerned with in this Chapter?

Team 4: Present Exercise 5.1.

Team 1: Present Exercise 5.2.

Team 2: Present Exercise 5.3 carefully at the blackboard. Carefully justify the conclusion.

Team 3: Present Exercise 5.4.

Team 4: Present Exercise 5.5.

Team 1: List the shorthand names and common names for the surfaces we’ve studied so far.

Team 2: List the shorthand names and common names for the three-manifolds we’ve discussed as well as the one-manifolds we know.

Team 3: Present Exercise 5.6.

Team 4: Describe how we can list all possible topological surfaces.

Team 1: Present Exercise 5.7.

Team 2: Present Exercise 5.8.

Team 3: Present Exercise 5.9.

Team 4: Present Exercise 5.10.

Team 1: Present Exercise 5.11.