

Maths 2094: Research Project # 1

Spring 2011

Due Date: 2:10 on Thursday, March 3rd.

Points: This project is out of 4 points.

Instructions: You are to work alone on this project, although you may ask for minor assistance from any of the departmental or library faculty.

You must turn in your project at the beginning of class on March 3rd, and it must be **typed in Latex**. Late projects will not be accepted. You must cite your work properly. If you are not sure of the proper citation, then please go to the library's web site (<http://lib.trinity.edu/lib2/cite.php>).

Project Problems:

1. Give a brief and coherent description of the field of *Knot Theory*.
2. Give a mathematical definition of *invariant*, and find a simple, geometric example of invariance in mathematics.