TEMPLATE FOR REU PAPERS

YOUR NAME

ABSTRACT. Give a brief description of your paper here

CONTENTS

1. WHAT DOES THE TABLE OF CONTENTS COMMAND DO?

The table of contents command will automatically make a contents. You must run tex at least twice for this to work.

2. HOW DO THE ENVIRONMENT COMMANDS WORK?

The command name is indicated as in "defn" above. To get a definition, you type:

Definition 2.1. This is how to define a definition.
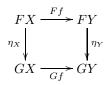
And for a theorem and its proof you would type:

Theorem 2.2. *This is the statement of a theorem.*

Proof. And this shows that the statement is correct. $\square$

Note that the numbering is taken care of automatically. Equations get numbered in sequence with statements, as for example

$$(2.3) \qquad e = mc^2$$

I'm hoping you have xypic available, and so have included a relevant usepackage. It works like this.

$$
\begin{array}{ccc}
FX & \xrightarrow{Ff} & FY \\
\eta_X \downarrow & & \downarrow \eta_Y \\
GX & \xrightarrow[Gf]{} & GY
\end{array}
$$

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References

[1] J. P. May. A Concise Course in Algebraic Topology. University of Chicago Press. 1999.