

# Lab Report 3.14159

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April 8, 1997

## 1 Problem description

This section describes the problem the lab handout posed. It uses a picture that comes from an encapsulated postscript file (found in Figure 1).

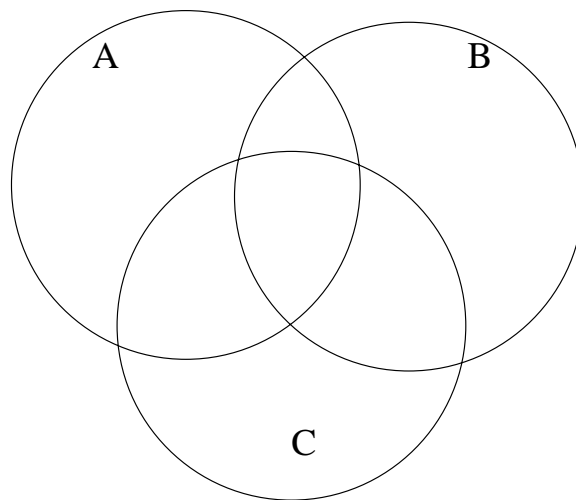


Figure 1: This came from an encapsulated postscript file.

## 2 Experimental Setup

This section describes what we had to build to accomplish the lab. It might have some math in it. Like maybe like this:

A is the first 2-bit number.  $A : a_1a_0$

B is the second 2-bit number.  $B : b_1b_0$

M is the product of A and B.  $M = A \times B$ .  $M : m_3m_2m_1m_0$

The Boolean equations for the bits in M are:

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\*Primarily responsible for this report

$$\begin{aligned}m_0 &= a_0 \cdot b_0 \\m_1 &= a_0 \cdot b_1 \oplus a_1 \cdot b_0 \\m_2 &= a_1 \cdot b_1 \oplus a_0 \cdot a_1 \cdot b_0 \cdot b_1 \\m_3 &= a_0 \cdot a_1 \cdot b_0 \cdot b_1\end{aligned}$$

### **3 Unexpected Problems**

This section describes how we had to modify our design to take into account the unexpected events (some of which weren't our fault) that occurred when we tried to build the lab.

### **4 Results of the Experiment and Interpretation of the Results**

This section explains what happened when we finally got our experiment to work. We explain why the results make sense and what their deeper meaning is.

### **5 Conclusions**

This section sums up our lab experience and contemplates the universe.