On my honor, I have not given, nor received, nor witnessed any unauthorized assistance on this work.

Print name and sign: _____

Question:	1	2	3	4	5	6	Total
Points:	5	5	4	3	8	5	30
Score:							

1. (5 points) Describe what a socket is and how it is used for inter-process communication.

2. (5 points) Draw a picture (with both numerical and textual descriptions) of the file descriptor table after the following commands execute in order. You may assume there are no syntax errors and the program runs to completion.

```
open("myfile.txt");
open("data.txt");
close("myfile.txt");
open("quiz.txt");
```

3. (4 points) List 6 different pieces of information contained in an inode (as you explored them in your filesystems lab).

4. (3 points) Describe the difference between a hard and soft link.

5. (8 points) Describe how the VerySimpleFileSystem (as discussed during this sprint) would find and open a file at the path /a/b/c.txt.

6. List and describe an advantage of:

   (a) (2 points) a decentralized network

   (b) (3 points) packet switching