MG 5860: Visual Group Theory (Summer 2009) Quiz 1 (20 points)

NAME:
Instructions: Answer each of the following questions completely. If something is unclear, or if you have any questions, then please ask. Good luck!
1. (6 points) State our unofficial definition of a group by listing the 4 rules.
2. (2 points) Define generators.
3. (2 points) What do the arrows represent in a Cayley diagram?
4. (2 points) What do the nodes represent in a Cayley diagram?

Written by D.C. Ernst

5. (4 points) Provide 2 examples of a group. In each case, describe a set of generators.

6. (4 points) For one of your examples above, draw a possible Cayley diagram.

Written by D.C. Ernst