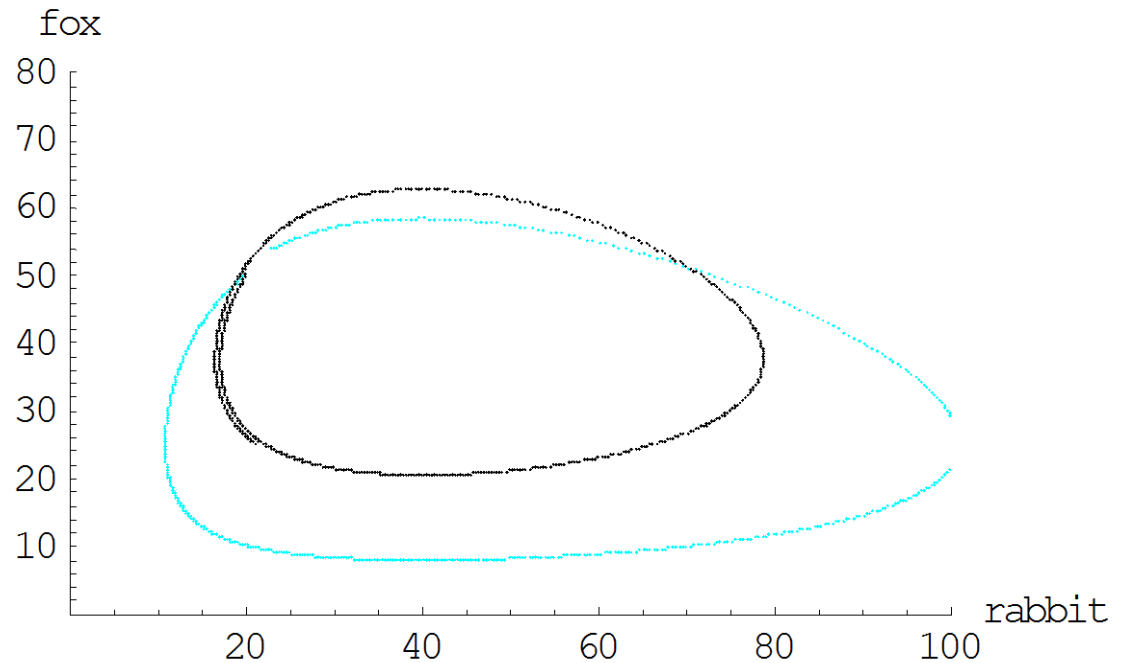
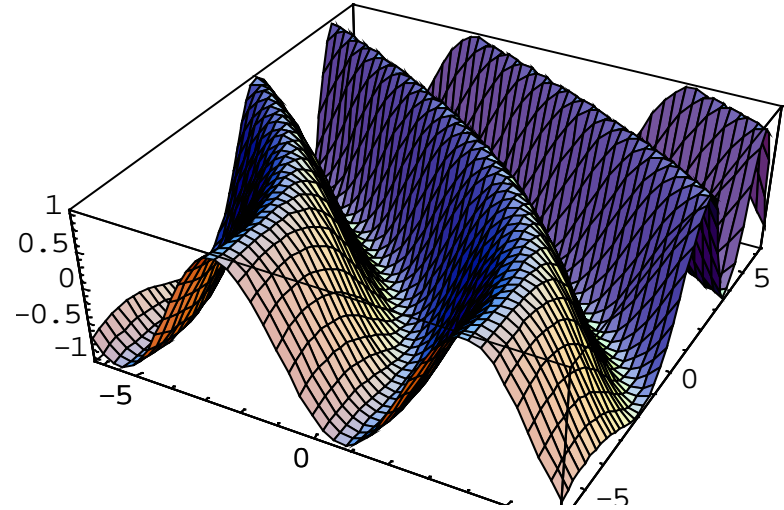


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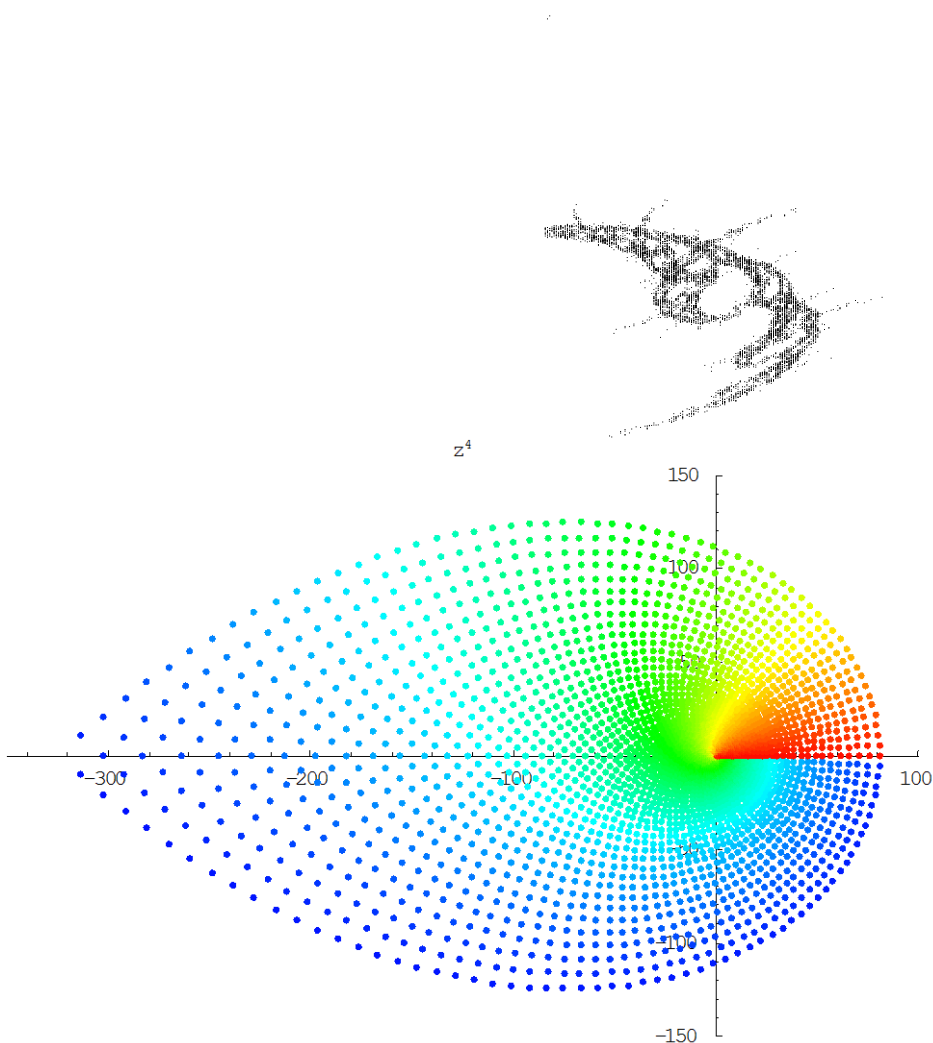
- Math is **ancient** (the Greeks)
- Math is **modern** (cryptography; modeling of water or electrical waves; modeling of disease or interactions of species; modeling air flow around cars, buildings, airplanes and for weather; error-correcting codes used in CDs, DVDs, cell-phones; computer graphics;...)



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Math is...

- powerful
- challenging
- aesthetic
- somewhat mysterious
- Interesting
- The language of science
- The language of the Universe?
- even fun?!?



A slightly freaky fraction:

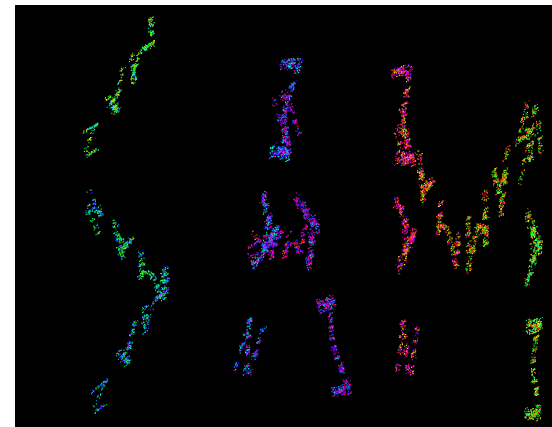
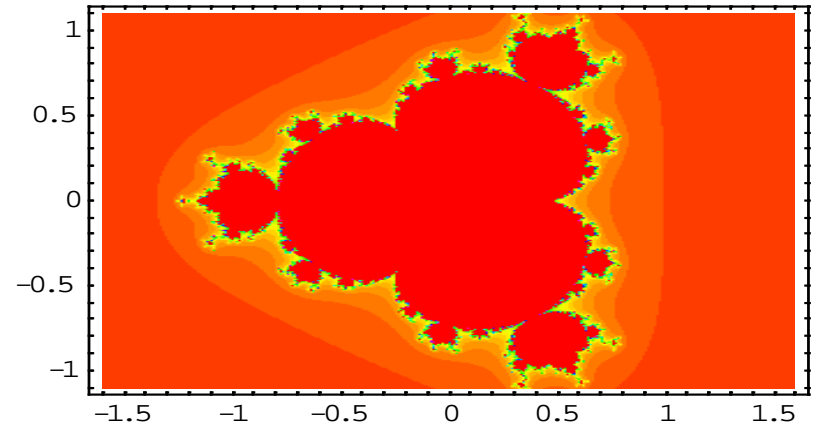
$$\frac{1000000000000}{9989999999001} = 1.001001002002002003003003004...027027027028028028...723723723...$$

Notice the pattern? And how did we invent this fraction??

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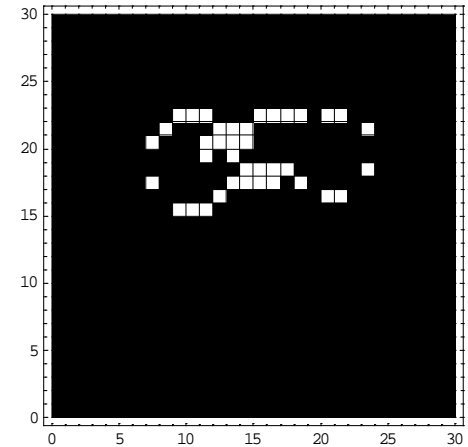
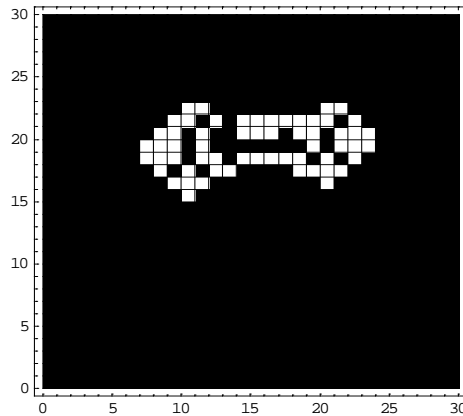
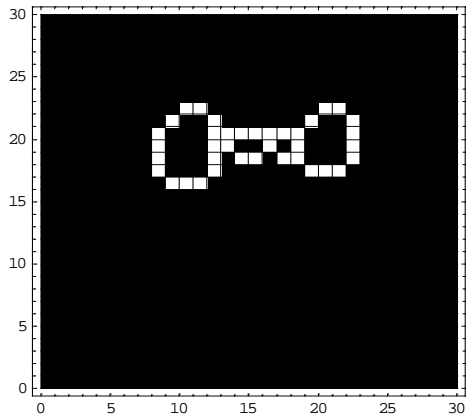
What happens after college?

- High school math teachers – high demand, high need, **noble profession**
- computer programmer/analyst
- actuary and other finance positions
- engineering support
- National Security Agency (in **cryptography**)
- Grad school (research)



Department of Mathematics

Some math majors have become...Mayor of New York;
Secretary of Defense; Justice on the US Supreme Court;
prime minister of (various countries); NBA stars; NFL stars;
Grammy-award winners; billionaires (ever hear of google?
Hedge funds?) *The Simpsons*?!)



Hot area: math and biology (AIDS, cancer research,
human genome, bioinformatics)

Above: simulation of life form evolving by certain rules

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- Math clubs
- Scholarships
- Tutoring job opportunities
- Outreach grants
- At right, an example of truly perplexing **MATHEMAGICAL** tricks
- Not sure if math is a hot area? See the *Wall Street Journal* article from January 2009...



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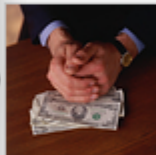
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By SARAH E. NEEDLEMAN

Nineteen years ago, Jennifer Courter set out on a career path that has since provided her with a steady stream of lucrative, low-stress jobs. Now, her occupation -- mathematician -- has landed

MONTHLY FUND ANALYSIS

The Best and Worst Jobs

Of 200 Jobs studied, these came out on top – and at the bottom:

The Best	The Worst
1. Mathematician	200. Lumberjack
2. Actuary	199. Dairy Farmer
3. Statistician	198. Taxi Driver
4. Biologist	197. Seaman
5. Software Engineer	196. EMT
6. Computer Systems Analyst	195. Roofer
7. Historian	194. Garbage Collector
8. Sociologist	193. Welder
9. Industrial Designer	192. Roustabout
10. Accountant	191. Ironworker
11. Economist	190. Construction Worker
12. Philosopher	189. Mail Carrier
13. Physicist	188. Sheet Metal Worker
14. Parole Officer	187. Auto Mechanic
15. Meteorologist	186. Butcher
16. Medical Laboratory Technician	185. Nuclear Decontamination Tech
17. Paralegal Assistant	184. Nurse (LN)
18. Computer Programmer	183. Painter
19. Motion Picture Editor	182. Child Care Worker
20. Astronomer	181. Firefighter

More on the Methodology

- For methodology info and detailed job descriptions, go to http://careercast.com/jobs/content/JobsRated_Methodology

Her job entails working as part of a virtual team that designs mathematically based computer programs, some of which have been used to make films such as "The Matrix" and "Speed Racer." She telecommutes from her home and rarely works overtime or feels stressed out. "Problem-solving involves a lot of thinking," says Ms. Courter. "I find that calming."

Other jobs at the top of the study's list include actuary, statistician, biologist, software engineer and computer-systems analyst,