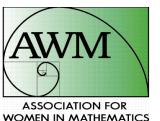
# STEP 3: Association for Women in Mathematics (AWM)

- Nonprofit organization dedicated to encouraging and promoting women and girls in the mathematical sciences.
- ullet ~12% of membership is male
- http://awm-math.org/



## Association for Women in Mathematics Essay Contest!





Dr. Mahlet Tadesse: A Mathematician's Quest from Ethiopia to the United States

 An interview with a woman currently working in a mathematical sciences career. Grades 6-8, Grades 9-12, and College Undergraduate.

by high school student Christina Bax

 Can request to get matched with someone. Due by January 31.

# How I have used Math in my Career: The Beginning



- My mom told me: try things at least once, work hard
- Math is where you learn why & why not!
- Count on my fingers
  Dots Lines/Curves + Regions.
  [Don't forget to count the outside]



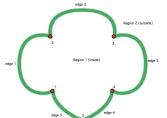


# How I have used Math in my Career: The Beginning



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#### Mathematical Editing

 Get to help others with their writing and put together a creative work



## Consulting for Movies

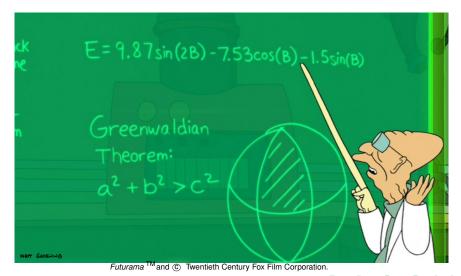
- Flatland: The Movie
- Futurama
- Erdős-Bacon documentary





Futurama TM and © Twentieth Century Fox Film Corporation.

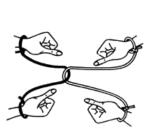
## My Own Geometry Theorem in the Movies



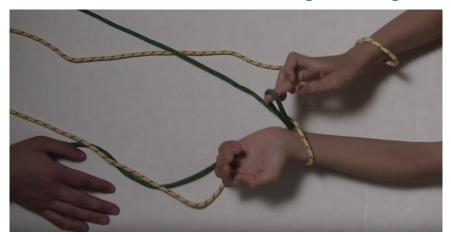
## What do you Enjoy?

What can I do with a math degree?" Qualify for a broad range of careers in business, industry, government, and teaching. urban designer stockbroker public utilities anımator epidemiologist statistician technical writer commodities trader teacher pollster torensic analyst appraiser underwriter actuary computer programmer professor

- Find a partner
- Put on your mathcuffs as shown in the following picture.
  They cannot be removed from your hands.
- Do not break, cut, saw through, bite through, until knots or in any other way damage the rope.
- Can you get free from each other?











## Research Perspectives: Mathematical Biology

- Make the issue concrete and physical whenever possible.... Many surprising and even counterintuitive discoveries can be made by freeing ourselves from old, unsubstantiated biases and experimenting with new ways of thinking and seeing.
- Equivalences in mathematics and molecular biology (topology, knot theory, and what kind of enzymatic reactions take place for mRNA strands)





# T-athlon

complete 3+ activities and win a prize!

 $\pi = \frac{\text{Circumference}}{\text{Diameter}} = 3.14159265359...$