

Prime Distribution

The goal of the presentation is to describe some properties of the distribution of prime numbers. This should focus on two main ideas: Twin Primes, and The Prime Number Theorem.

- Information concerning twin primes can be found at
http://en.wikipedia.org/wiki/Twin_primes
- Information concerning twin primes can be found at
http://en.wikipedia.org/wiki/Prime_Number_Theorem

Your presentation should include a discussion of

- The twin prime conjecture
- Partial results on twin primes (e.g. Burn's Theorem or the Hardy-Littlewood conjecture)
- The Prime Number Theorem
- Bounds on the prime counting function.

You should also feel free to expand on the above in any directions you would like (so long as they are related to the topic and not directly covered in class). If you have any questions regarding the presentation feel free to e-mail your TA or Dr. Ackerman