

Quiz # 1 for Dr. Z.'s Number Theory Course for Sept. 26, 2013

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. (3 points) Convert 51 (written in the usual decimal notation) to binary, in (i) sparse notation (ii) dense notation (iii) positional notation.

2. (3 points) Find, by only using paper-and-pencil the first three terms of the Euclid-Mullin sequence.

3. (4 points) Prove that there are infinitely many primes.