

“QUIZ” for March 10, 2006, Dr. Z.’s Colloquium talk

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. Conjecture and prove an explicit expression for

$$a(n) := \sum_{i=1}^n i$$

using the methodology of **experimental mathematics** (no credit for other methods!) .

Hint: $a(n)$ is characterized by $a(n) - a(n - 1) = n$ and $a(0) = 0$.