



THE FIRST ANNUAL
UTAH MATH OLYMPIAD

for motivated high school students in math

SATURDAY, FEBRUARY 16, 2013

TIME TBA

HELD AT THE UNIVERSITY OF UTAH & BYU

Participation is FREE!

Please register online at www.utmath.org by **February 9**.

Prize money will be distributed to the top scorers.

Please direct questions to contact@utmath.org or refer to our website for more information.

SAMPLE PROBLEM

Let $f(n)$ be the number of positive integers k such that 2^k is less than or equal to 3^n . Prove that $f(n+1) - f(n) = 1$ for infinitely many positive integers n .

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