



The Eighth Annual
Utah Math Olympiad

Saturday, March 21, 2020
1:00 - 4:00 pm

Participation is free!
Prize money is available for the top scorers.

For more information and to register, visit www.utahmath.org.

Registration ends March 14.

Contact us at contact@utahmath.org.

Sample Problem

Define A_1, A_2, \dots recursively by setting $A_1 = 1$, $A_2 = 2$, and

$$A_n = \left(\frac{n^2}{2} - \frac{2}{(n-1)^2} \right) A_{n-1} + A_{n-2}$$

for all $n > 2$. Find and prove an explicit formula for A_n in terms of a well-known sequence.

Locations:

(Sandy)

The Waterford School
Math Building (400)
Library

(Provo)

Brigham Young University
Talmage Building
Room 116