PoTW 25: Week of 1-7-2022 (solution)*

Problem of the Week at shsmathteam.com

Problem of the Week #25: Double Factorial Sum

Algebra
Source: AIME

Compute the denominator of the sum

$$\sum_{i=1}^{2022} \frac{(2i-1)!!}{(2i)!!}$$

when it is written as a fraction in lowest terms.

Solution:

See here.