



PoTW 25: Week of 1-7-2021

Problem of the Week at shsmathteam.com

Submission form: [link to submit](#)

For hints: andliu22@students.d125.org

Alternatively, you can message Andrew Liu on Facebook Messenger. Please don't be afraid to reach out for help, asking for hints is heavily encouraged if you feel stuck.

Problem of the Week #25: Double Factorial Sum

Algebra

Compute the denominator of the sum

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

when it is written as a fraction in lowest terms.