

Problem 7 (due Monday, May 6)

Prove that for every $n \geq 1$ the number $\lfloor \frac{1^2 + 2^2 + \dots + n^2}{(1!)^2 \cdot (2!)^3 \cdot (3!)^4 \cdot \dots \cdot (n!)^{n+1}} \rfloor$ is an integer.

We received only one solution, from Sasha Aksenchuk. For a complete solution see the following link [Solution](#).

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