

PROPOSED PROBLEM TO REVISTA ESCOLAR DE LA OLIMPIADA
IBEROAMERICANA DE MATEMATICA

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Let $n \geq 1$ be a natural number. Evaluate

$$\int_1^{\infty} \frac{x^n}{e^x - 1 - x - \frac{x^2}{2!} - \dots - \frac{x^n}{n!}} dx.$$

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