

01. (ALEXANDRA – UEA) $\int_1^{2025} 2026 \cdot x^{2025} dx$

02. (ALESSANDRO – UEA) $\int_0^{2025} \frac{x^3 + x + 1}{x^2 + 1} dx$

03. (JEFFERSON – UEA) $\int_{-2025}^{2025} \frac{x^{2025} + \sin^{2025}(2025\pi x)}{2025 + \cos^{2025}(2025\pi x)} dx$

04. (NATÁLIO – UEA) $\int x^{2025} \cdot \ln x dx$

05. (JÚLIO CEZAR – UEA) $\int \frac{2025 \cdot e^x}{1 + e^{2x}} dx$

06. (TACILDO – IFAM) $\int_{-2025}^{2025} \frac{x^{2023} + x^{2025}}{2024 + x^{2026}} dx$

07. (ALESSANDRO – UEA) $\int_0^{2025} \underbrace{\sqrt{x\sqrt{x\sqrt{x\sqrt{x\cdots}}}}}_{x>0} dx$

08. (NEIDE – UEA) $\int_0^{2025} \frac{1}{x} dx$

09. (ALEXANDRA – UEA) $\int_1^{+\infty} \frac{1}{x^{2026}} dx$

10. (ALESSANDRO – UEA) Se $\Gamma(\alpha) = \int_0^{+\infty} x^{\alpha-1} \cdot e^{-x} dx$, com $\alpha > 0$, então qual o valor

de $\int_0^{+\infty} \frac{2025 \cdot \beta^\alpha}{\Gamma(\alpha)} \cdot x^{\alpha-1} \cdot e^{-\beta x} dx$?

