

UC Merced Applied Math Problem of the Month

September 2025

Answer the following *seemingly unrelated* questions.

Q1. Which one is greater? $\frac{22}{7}$ vs. π

Q2. Evaluate the integral: $\int_0^1 \frac{x^4(1-x)^4}{1+x^2} dx$

Can you now *relate* these two questions?

To submit your solutions for a chance to win an Amazon gift card, and to find out detailed contest rules,

- scan the QR code, or
- go to <https://bit.ly/UCM-POTM>

