



PROBLEM OF THE WEEK #7
(Spring 2019)

Evaluate:

$$\int_0^1 \frac{x^4(1-x)^4}{1+x^2} dx$$

[Please fully explain your answer.]

Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, March 13, 2019.

Every week, the best solution submitted earns a \$10 Platteville gift certificate; the top scorer each semester also wins a cash award. Good luck!

You can always see the Problem of the Week (and complete rules) online at:

<http://uwpmath.weebly.com/>