



UNIVERSITY OF WISCONSIN
PLATTEVILLE
DEPARTMENT OF MATHEMATICS

PROBLEM OF THE WEEK #3
(Fall 2022)

Which is larger: 10000^{10000} , or 10001^{9999} ?

[Please fully explain your answer.]

Email solutions to kwonmi@uwplatt.edu by 4:00pm on Wednesday, October 5, 2022.

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/>