

PROBLEM OF THE WEEK #8 (Spring 2023)

Simplify: $\sin^2 \frac{\pi}{14} + \sin^2 \frac{3\pi}{14} + \sin^2 \frac{5\pi}{14}$.

[Please fully explain your answer.]

Email solutions to kwonmi@uwplatt.edu by 2:00pm on Wednesday, March 29, 2023.

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/