

Problem of the Week #8 (Fall 2017)

Prove that
$$2 \arctan \frac{1}{3} + \arctan \frac{1}{7} = \frac{\pi}{4}$$
.

[Please fully explain your answer.]

Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, November 8, 2017.

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/