



UNIVERSITY OF WISCONSIN
PLATTEVILLE
DEPARTMENT OF MATHEMATICS

PROBLEM OF THE WEEK #5
(Fall 2020)

Find a triangle with area 168, whose side lengths are integers, with all three vertices lying on a circle whose radius is a perfect square.

[Please fully explain your answer.]

Email your solution to kwonmi@uwplatt.edu by 4:00 P.M. on Wednesday, October 21, 2020.

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/>