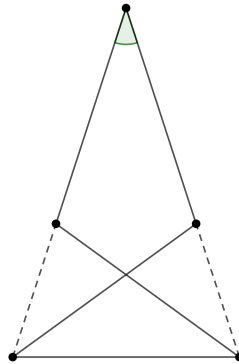




PROBLEM OF THE WEEK #1  
(Fall 2019)

Five matchsticks of equal length lie end to end, with their ends on the sides of a triangle, as shown in the figure below. What is the measure of the marked angle at the top vertex of the triangle?



[Please fully explain your answer.]

Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, September 25, 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/>