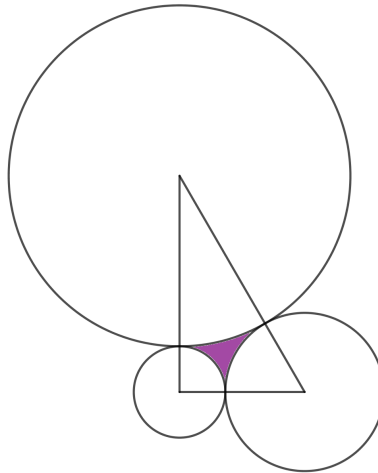




PROBLEM OF THE WEEK #6
(Spring 2020)

Three circles are externally tangent to each other, and their centers are the vertices of a $30 - 60 - 90$ triangle T whose hypotenuse has length 16. Find the area of the region that is inside T but outside all three circles.



[Please fully explain your answer.]

Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, March 18, 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/>