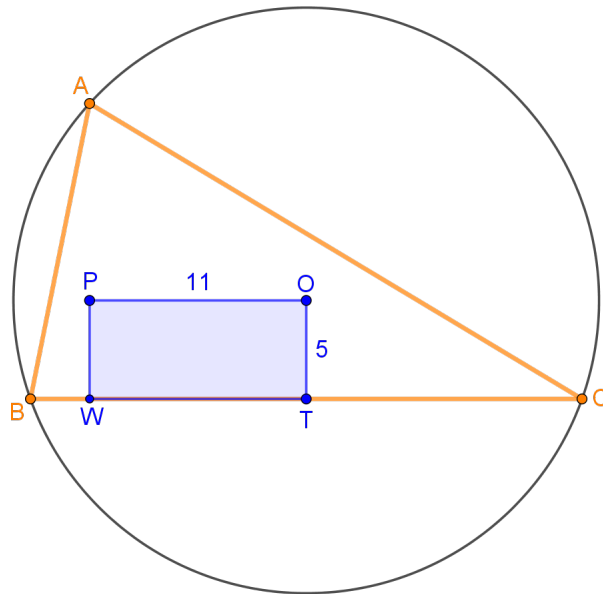




PROBLEM OF THE WEEK #10  
(Fall 2020)

Let  $A$ ,  $B$ , and  $C$  be three points on a circle with center  $O$ . Let  $T$  be the midpoint of  $BC$ , and let  $W$  be the foot of the altitude from  $A$ . Suppose that the three altitudes intersect at  $P$  and  $POTW$  is a rectangle with sides  $OP = 11$  and  $OT = 5$ . Find the length of  $BC$ .



[Please fully explain your answer.]

Email your solution to [kwonmi@uwplatt.edu](mailto:kwonmi@uwplatt.edu) by 4:00 P.M. on Wednesday, November 25, 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/>