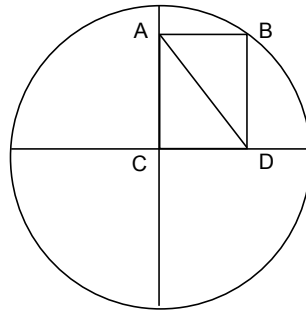
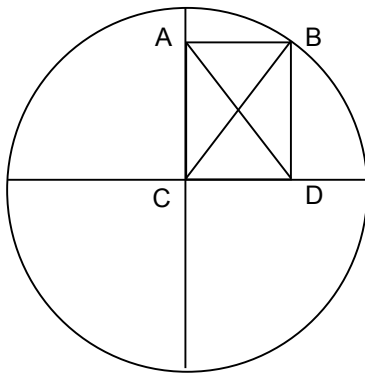

Problem of the Week

Solution One

The circle below has radius 5. Figure $ABCD$ is a rectangle. Find the length of segment AD .



SOLUTION: Segment AD has length 5.



The trick is to draw in the rectangle's other diagonal, BC , as shown to the left.

Segment BC is plainly a radius of the circle, and therefore has length 5. Since the diagonals of a rectangle have the same length, it follows that AD has length 5 as well.