

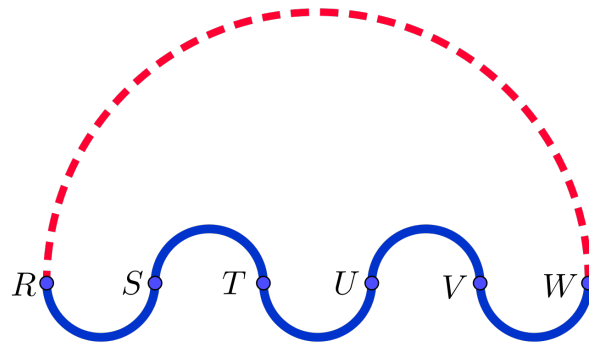


Problem of the Week

Problem C

Two Paths

Points R , S , T , U , V , and W lie in a straight line. There are two curved paths from R to W . The upper path is a semi-circle with diameter RW . The lower path is made up of five semi-circles with diameters RS , ST , TU , UV , and VW .



It is also known that the distance from R to W in a straight line is 1000 m, and $RS = ST = TU = UV = VW$.

Starting at the same time, John and Betty ride their bicycles along these paths from R to W . Betty follows the upper path and John follows the lower path. If they bike at the same speed, who will arrive at W first?