

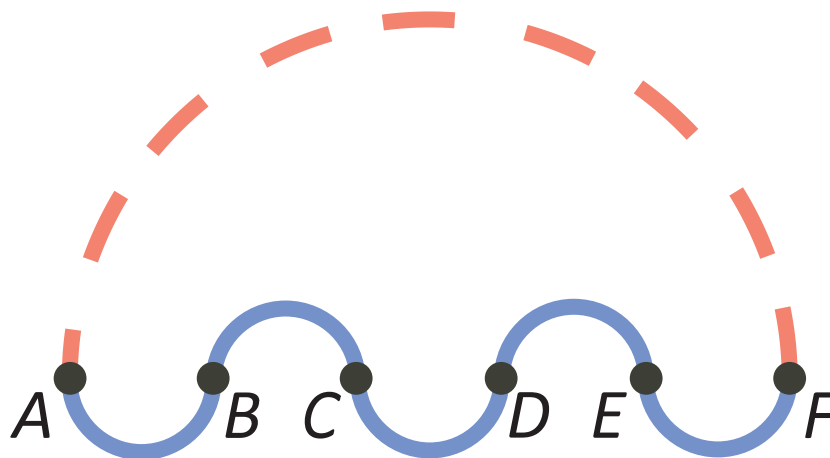


Problem of the Week

Problem C

Curvy Contest

Two paths are built from A to F as shown.



The distance from A to F in a straight line is 100 m. Points B , C , D , and E lie along AF such that $AB = BC = CD = DE = EF$.

The upper path, shown with a dashed line, is a semi-circle with diameter AF . The lower path, shown with a solid line, consists of five semi-circles with diameters AB , BC , CD , DE , and EF .

Starting at the same time, Bev and Mike ride their tricycles along these paths from A to F . Bev rides along the upper path from A to F while Mike rides along the lower path from A to F . If they ride at the same speed, who will get to F first?

STRANDS GEOMETRY AND SPATIAL SENSE, MEASUREMENT

