

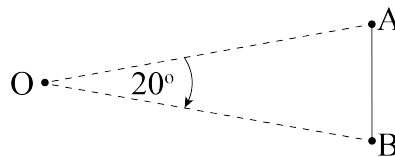


Problem of the Week

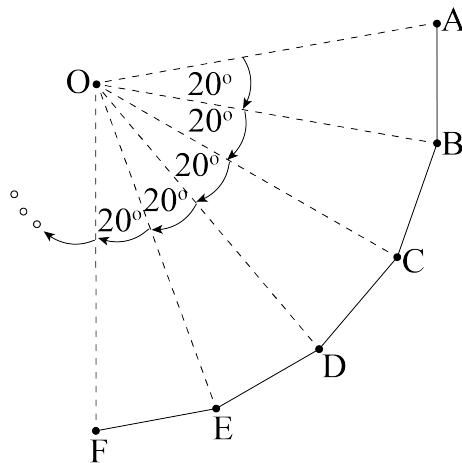
Problem C

One Dot at a Time

Priya is drawing a polygon on a piece of wood. First she hammers a nail into the piece of wood, calling this point O . Then she attaches one end of a piece of string to the nail, and the other end to a pencil. She pulls the string tight and makes a dot on the wood, calling this point A . Keeping the string tight, she rotates it 20° clockwise and makes another dot, calling this point B . She then connects points A and B with a straight line.



She repeats this process, rotating the string 20° clockwise, making a dot, and connecting this point to the previous point with a straight line each time, until she has gone all the way around the circle and completed the polygon.



- How many sides does Priya's completed polygon have?
- What is the sum of all the interior angles in the polygon?