



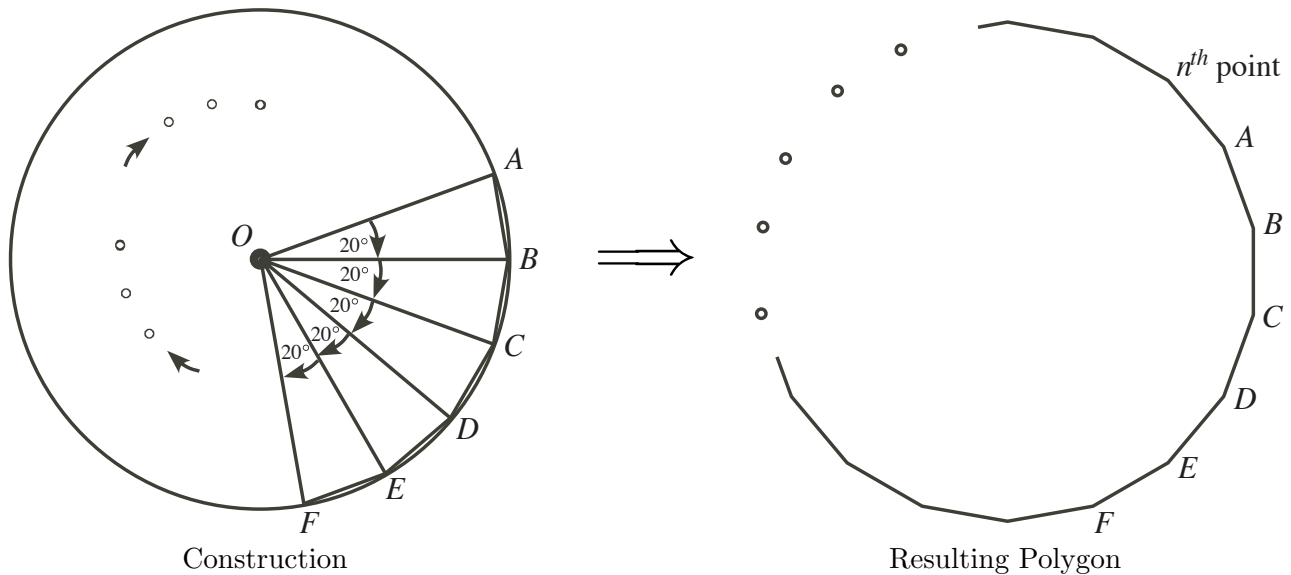
Problem of the Week

Problem C

One Step at a Time

A circle with centre O has a point A on the circumference. Radius OA is rotated 20° clockwise about the centre, resulting in the image OB . Point A is then connected to point B . Radius OB is rotated 20° clockwise about the centre, resulting in the image OC . Point B is then connected to point C .

The process of clockwise rotations continues until some radius rotates back onto OA . Every point on the circumference is connected to the points immediately adjacent to it as a result of the process. A polygon is created.



- Determine the number of sides of the polygon.
- Determine the sum of the angles in the polygon. That is, determine the sum of the angles at each of the vertices of the polygon.

