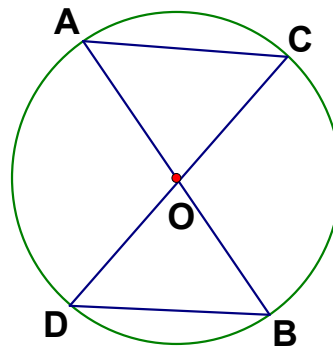


Name _____
Mr. Schlansky

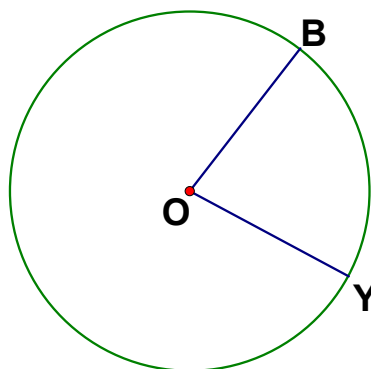
Date _____
Geometry

Area of a Sector

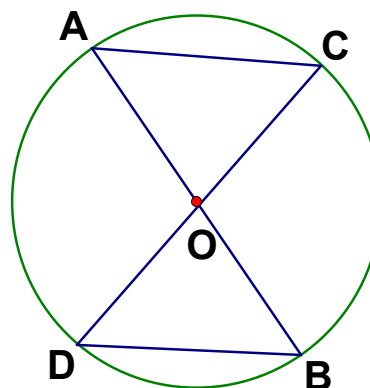
1. In circle O, $m\angle AOC = 70$ and $\overline{AO} = 2$ in. Find the area of sector COA to the nearest square inch.



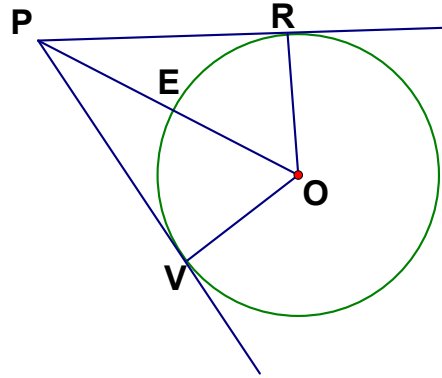
2. In circle O, if $\angle BOY = 80^\circ$ and $\overline{BO} = 8$ cm, find the area of sector BOY in terms of π .



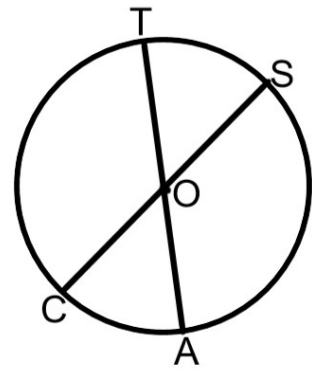
3. In circle O, $m\angle AOC = 65$ and $\overline{DO} = 6$ in. Find the area of sector COB in terms of π .



4. In circle O, tangents \overline{PR} and \overline{PV} are drawn. If $m\angle ROP = 80$ and $\overline{RO} = 4\text{ cm}$, find the area of sector ROE to the nearest tenth of a square cm.



5. In circle O, diameters \overline{TA} and \overline{CS} are drawn. If $m\angle COA = 60$ and $\overline{TA} = 10\text{ cm}$, find the area of sector SOA to the nearest hundredth of a square centimeter.



6. In circle O, diameter \overline{SP} and radius \overline{TO} are drawn. If $m\angle SOT = 40$ and $\overline{TO} = 2\text{ meters}$, find the area of sector TOP in terms of π .

