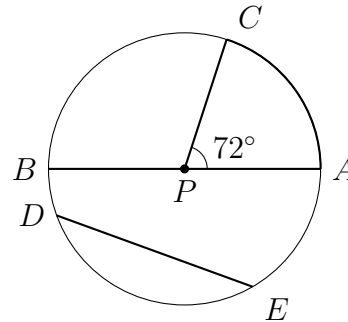


Name:

### 11.1 Circle vocabulary study sheet

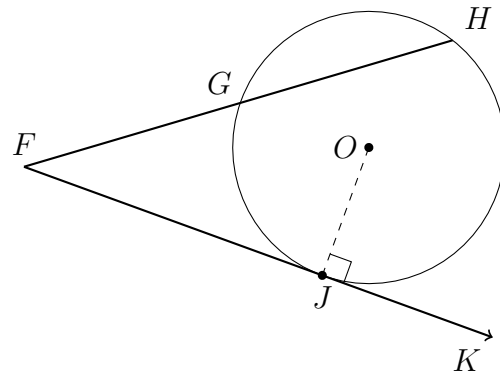
1. **Internal line segments:** Circle with center at point  $P$ , as shown.

- Diameter  $\overline{AB}$
- Radius  $\overline{CP}$
- Chord  $\overline{DE}$
- Central angle  $\angle APC$
- Arc  $\widehat{AC}$  (with measure  $m\widehat{AC} = 72^\circ$ )



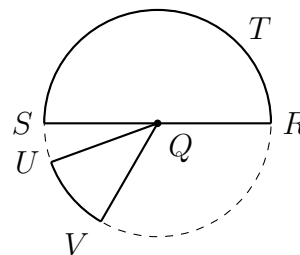
2. **External lines:** Circle with center at point  $O$ , at right.

- Secant  $\overline{FGH}$
- Radius  $\overline{OJ}$
- Tangent  $\overline{FJK}$
- Point of tangency  $J$
- Note:  $\overline{OJ} \perp \overline{FJK}$



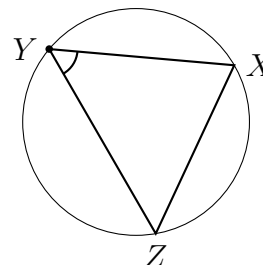
3. **Areas:** Circle with center at point  $Q$ .

- Diameter  $\overline{RS}$
- Semi-circle  $RST$
- Sector  $QUV$



4. **Inscribed polygons and angles:** Circle with triangle inscribed.

- Inscribed  $\triangle XYZ$
- Inscribed  $\angle XYZ$



5. Triangle vocabulary: vertex, side, hypotenuse, acute, obtuse, perpendicular, median, altitude, perpendicular bisector
6. Situations with right triangle hypotenuses as circle radii.
7. Use the tangent function to determine the measure of the central angle  $\theta$ .
8. A regular pentagon is inscribed in a circle as shown below. What is the measure of the central angle between two consecutive vertices,  $m\angle AOB$ ?