1. In the following diagram, $A B=B C=C D$ and $A D=B D$. Find the measure of angle $D$.

2. In this diagram, $\overleftrightarrow{A B}$ is parallel to $\overleftrightarrow{C D}$ and the side lengths are as shown. Find the area enclosed by quadrilateral $A B C D$.

3. In the diagram below, the small circle is centered at $O$, the large one is centered at $P$, and the two circles intersect only at $A$. The segments $\overline{B C}$ and $\overline{P D}$ have lengths as shown. Find the length of $\overline{C D}$.

