Handout 1: Construction Zone

1. Draw a circle with center O and radius 4 cm.

2. Construct a diameter AB of your $\odot O$.

3. Draw a radius OC of your $\odot O$ such that $m\angle BOC = 100°$.

4. Construct a $\odot P$. Any radius is fine.

5. Draw a line m tangent to $\odot P$ at a point X.

6. Construct a secant of $\odot P$.

7. Construct a $\odot Q$ such that $\odot Q$ is tangent to m and has no other tangents in common with $\odot P$.

8. Construct a $\odot S$. Any radius is fine.

9. Construct a right triangle $\triangle ABC$ inscribed in $\odot S$, meaning that points A, B, and C are on $\odot S$.

10. Construct segments $\overline{AD}$ and $\overline{CD}$ such that $ABCD$ is a rectangle inscribed in $\odot S$.