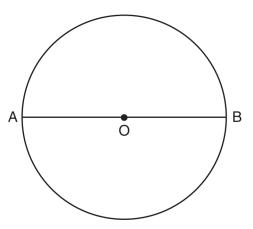
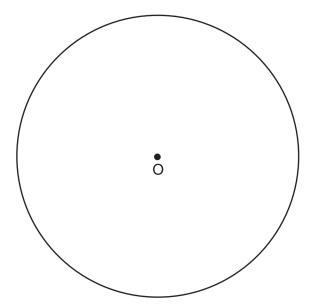
Constructions - due Wednesday 9/26

Name: _

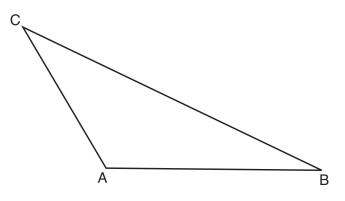
1. The diagram below shows circle O with diameter \overline{AB} . Using a compass and straightedge, construct a square that is inscribed in circle O. [Leave all construction marks.]



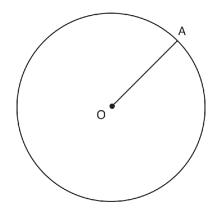
2. Using a compass and straightedge, construct a regular hexagon inscribed in circle *O*. [Leave all construction marks.]



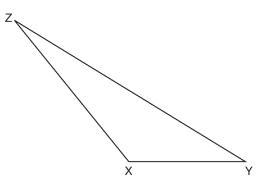
3. In the diagram of $\triangle ABC$ shown below, use a compass and straightedge to construct the median to \overline{AB} . [Leave all construction marks.]



4. In the diagram below, radius \overline{OA} is drawn in circle O. Using a compass and a straightedge, construct a line tangent to circle O at point A (this explanation is was NOT on exam: perpendicular to \overline{OA} passing through point A).

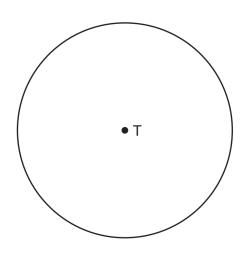


5. Triangle XYZ is shown below. Using a compass and straightedge, on the line below, construct and label $\triangle ABC$, such that $\triangle ABC \cong \triangle XYZ$.

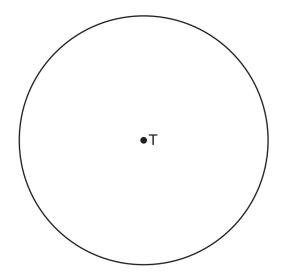


6. Construct an equilateral triangle inscribed in circle T shown below.

[Leave all construction marks.]



7. Use a compass and straightedge to construct an inscribed square in circle T shown below. [Leave all construction marks.]



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