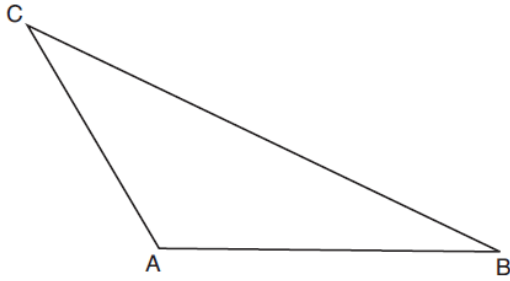


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Class: _____

Geometry
Unit C
PS

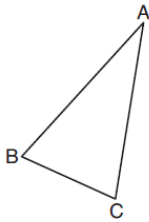
1) [3]

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

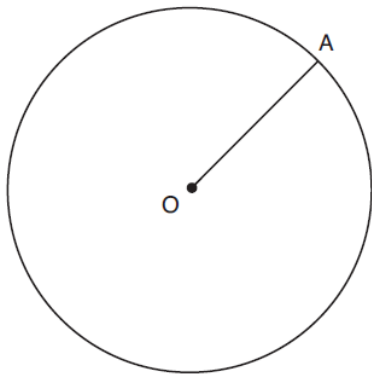


2) [4]

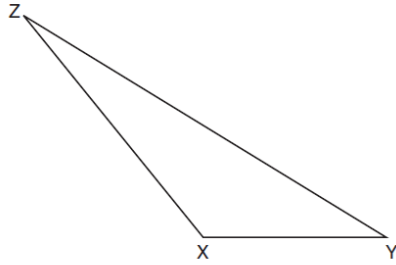
Using a compass and straightedge, construct and label $\triangle A'B'C'$, the image of $\triangle ABC$ after a dilation with a scale factor of 2 and centered at B . [Leave all construction marks.]



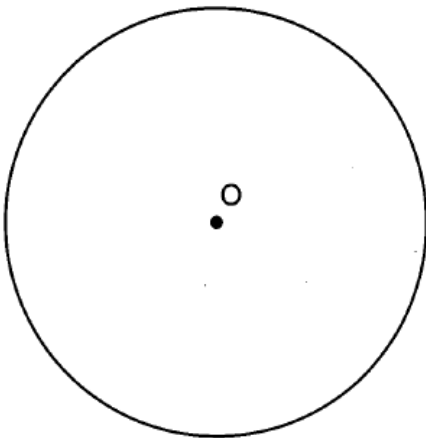
3) [3] In the diagram below, radius \overline{OA} is drawn in circle O . Using a compass and a straightedge, construct a line tangent to circle O at point A . [Leave all construction marks.]



- 4) [4] Triangle XYZ is shown below. Using a compass and straightedge, on the line below, construct and label $\triangle ABC$, such that $\triangle ABC \cong \triangle XYZ$. [Leave all construction marks.]
Based on your construction, state the theorem that justifies why $\triangle ABC$ is congruent to $\triangle XYZ$.

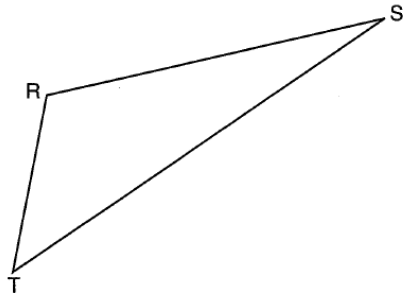
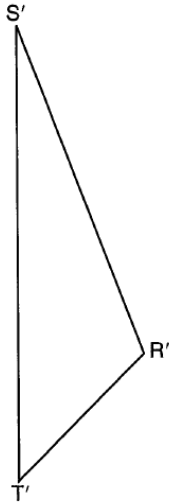


- 5) [4] Using a compass and straightedge, construct a regular hexagon inscribed in circle O below. Label it $ABCDEF$. [Leave all construction marks.]



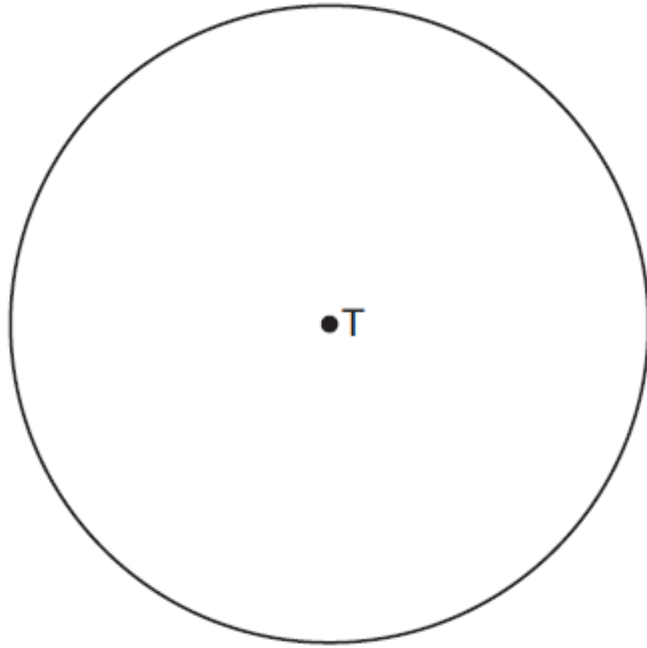
If chords \overline{FB} and \overline{FC} are drawn, which type of triangle, according to its angles, would $\triangle FBC$ be? Explain your answer.

- 6) [3] Using a compass and straightedge, construct the line of reflection over which triangle RST reflects onto triangle $R'S'T'$. [Leave all construction marks.]



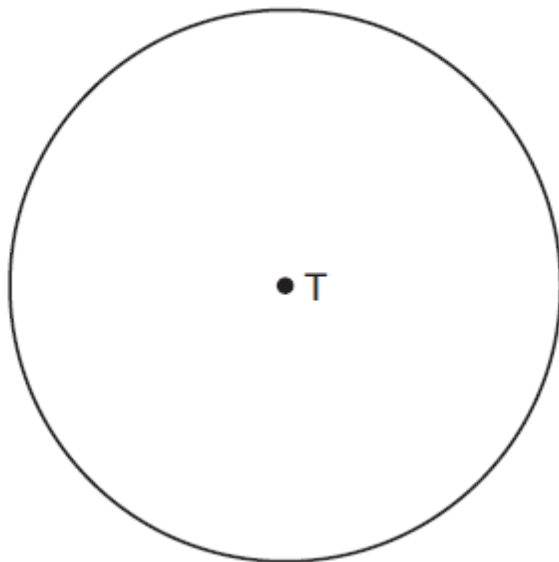
7) [3]

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



8) [3]

Construct an equilateral triangle inscribed in circle T shown below.
[Leave all construction marks.]



9 [4] Construct a square that has segment AB as a diagonal.



10) [5] Construct a parallelogram that has an angle at B that is 135° that has side lengths x and $2x$ ($AB = 2x$)

