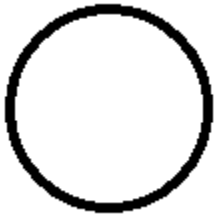
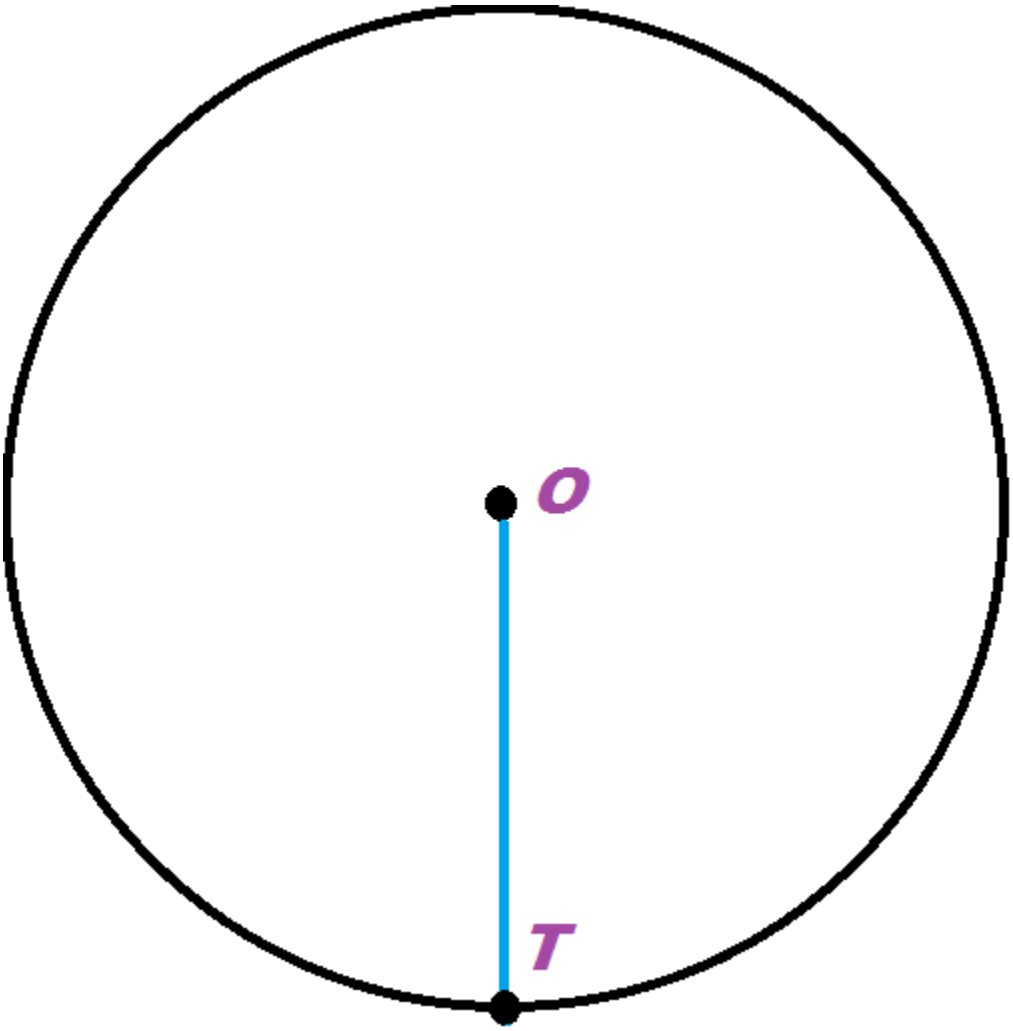
DIRECTIONS:

1) Draw a point anywhere on this paper outside the circle (farther away is easier). Label this point ***P***.
2) Use a ruler to draw a line from ***P*** that intersects (touches) the circle exactly once. Label this point on the circle as point ***Q***.
3) Use a ruler to draw another line ***P*** that intersects the circle exactly once, but in a different place than Step 2. Label this point on the circle as the point ***R***.
4) Use a ruler to measure the distance of ***PQ*** (use mm, cm, or inches) $\boldsymbol{PQ} =$ _____
5) Use a ruler to measure the distance of ***PR*** (use same units at Step 4) $\boldsymbol{PR} =$ _____



THEOREM: Two tangents to the same circle from the same point are _____.

DIRECTIONS: Use a ruler to draw a line that intersects the circle exactly once at the point *T*.



What kind of angle does it appear you've made with your line and radius $\overline{OT}$? _____

In a plane, if a tangent and a radius intersect,

_____ .