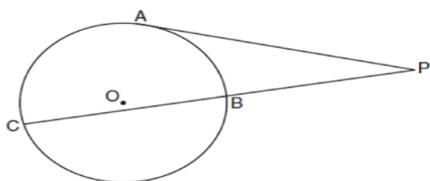


Geometry Regents Bimodal Worksheets

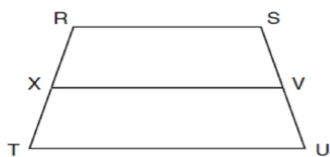
- 1 A polygon is transformed according to the rule: $(x,y) \rightarrow (x+2,y)$. Every point of the polygon moves two units in which direction?

- 2 In the diagram below, tangent \overline{PA} and secant \overline{PBC} are drawn to circle O from external point P .



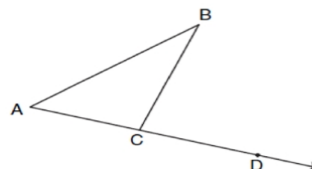
If $PB = 4$ and $BC = 5$, what is the length of \overline{PA} ?

- 3 In the diagram below of trapezoid $RSUT$, $\overline{RS} \parallel \overline{TU}$, X is the midpoint of \overline{RT} , and V is the midpoint of \overline{SU} .



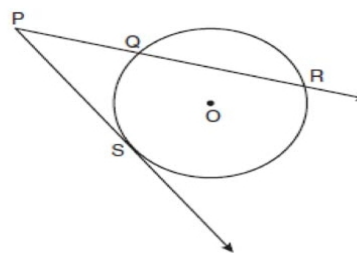
If $RS = 30$ and $XV = 44$, what is the length of \overline{TU} ?

- 4 In the diagram below, $\triangle ABC$ is shown with \overline{AC} extended through point D .



If $m\angle BCD = 6x + 2$, $m\angle BAC = 3x + 15$, and $m\angle ABC = 2x - 1$, what is the value of x ?

- 5 In the diagram below, \overline{PS} is a tangent to circle O at point S , \overline{PQR} is a secant, $PS = x$, $PQ = 3$, and $PR = x + 18$.



(Not drawn to scale)

What is the length of \overline{PS} ?