

6. Given concentric circles with center O and a point P outside the circles, draw segment \overline{PO} and also draw lines through P tangent to the circles at S and T, as shown. If OS = 10, \overline{PT} bisects angle $\angle OPS$, and $area(\triangle TOP) = 35$, then determine distance OP.

7. Determine the smallest positive integer m such that $m^2 + 7m + 89$ is a multiple of 77.

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SCORE:

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 $\left(3 \right)$

 $\left(3\right)$