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Big Ideas Chapter 1 Challenge Problems

Name	
Date	Period

- 1) \overrightarrow{QS} bisects $\angle PQR$, $m\angle PQR = (x^2)^\circ$, and $m\angle PQS = (2x+6)^\circ$. Find all the measures for $\angle PQR$.
- 2) How many pairs of vertical angles are in the diagram below?



3) The supplement of an angle is 36° less than twice the supplement of the complement of the angle. Find the measure of the supplement.

Geometry

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2) How many pairs of vertical angles are in the diagram below?



3) The supplement of an angle is 36° less than twice the supplement of the complement of the angle. Find the measure of the supplement.

4) Find all possible areas of a rectangle whose sides are natural numbers and whose perimeter is 12.
5) Find two points on the y-axis that are a distance of 5 units from (4, 2).
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