



Problem of the Week

Problem E

Good Extensions

The sides of $\triangle PQR$ are extended to create $\triangle XYZ$ as follows: side RQ is extended to Y so that $RQ = QY$, side QP is extended to X so that $QP = PX$, and side PR is extended to Z so that $PR = RZ$.

If the area of $\triangle XYZ = 1197$, determine the area of $\triangle PQR$.

