

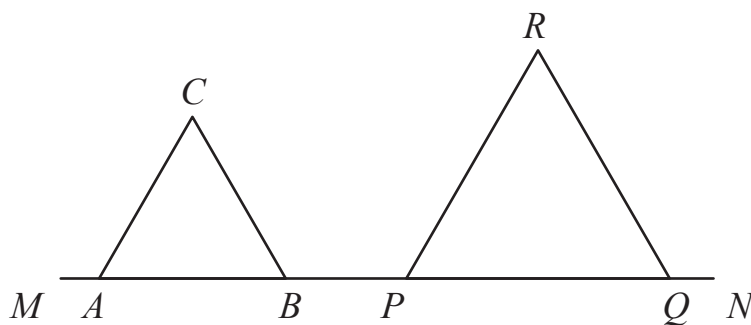


Problem of the Week

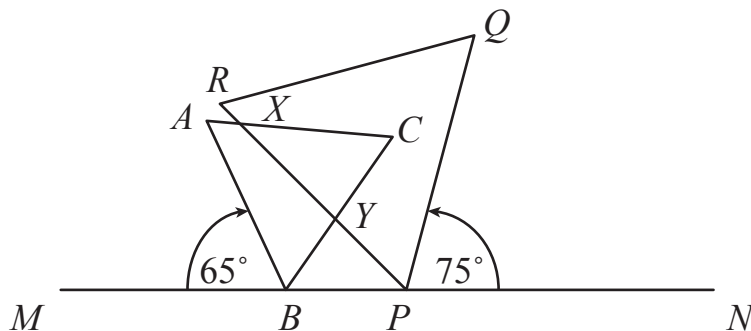
Problem C

Rotate Right, Rotate Left

Two equilateral triangles, $\triangle ABC$ and $\triangle PQR$, have their bases AB and PQ sitting on line segment MN , as shown.



$\triangle ABC$ is tipped clockwise 65° about point B so that $\angle MBA = 65^\circ$ and point B remains where it is on MN . $\triangle PQR$ is tipped counterclockwise 75° about point P so that $\angle NPQ = 75^\circ$ and point P remains where it is on MN .



As a result of tipping the two triangles, $\triangle ABC$ overlaps $\triangle PQR$ such that AC and BC intersect RP at X and Y , respectively. Vertex C of $\triangle ABC$ lies inside $\triangle PQR$.

Determine the measure of $\angle CXY$.

