Problem of the Week
Problem C
Angle Chasing

A circle with centre $C$ is drawn around $\triangle CQS$ so that $Q$ and $S$ lie on the circumference of the circle. $QC$ is extended to $P$ on the circle. Chord $PR$ intersects $CS$ and $QS$ at $A$ and $B$, respectively.

If $\angle QPR = 24^\circ$ and $\angle CAP = 90^\circ$, determine the measure of $\angle QBR$.
($\angle QBR$ is marked $x^\circ$ on the diagram.)

Strands  Geometry and Spatial Sense, Patterning and Algebra