## The great angle chase: Student worksheet

## http://topdrawer.aamt.edu.au/Geometric-reasoning/Good-teaching/Looking-beyond-the-lines/Visualising-relationships/Great-angle-chase

In the diagram below, $O$ is the centre of the circle. The figure is not drawn to scale.
$G H$ is a tangent to the circle at $P . P S$ is a diameter and $P Q=R S$.
$\angle H P Q=25^{\circ}, \angle P I Q=100^{\circ}$ and $\angle U P T=35^{\circ}$.
Do not construct additional lines in the diagram.

- Write in the size of all the angles.
- Name any cyclic quadrilaterals.
- Name all equal line segments.
- Name all equal arcs.
- Name any parallel lines.


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