

## 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.

*GH* is a tangent to the circle at *P*. *PS* is a diameter and PQ = RS.

 $\angle HPQ = 25^{\circ}, \angle PIQ = 100^{\circ} \text{ and } \angle UPT = 35^{\circ}.$ 

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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