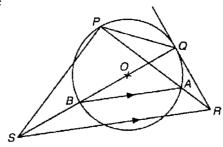
Concyclic exercise

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In the figure, RQ is the tangent to the circle at Q and O is the centre of the circle. SBOQ is a straight line and BA // SR.

- (a) Prove that *PQRS* is a cyclic quadrilateral.
- (b) Hence, find $\angle SPR$.



(a) $\angle PQB = \angle PAB$

 $= \angle PRS$

.. PQRS is a cyclic quadrilateral.

(b) $\angle SPR = \angle SQR$

= 90°

(∠s in the same segment)

(corr. \angle s BA // SR)

(converse, ∠ in the same segment)

(∠ in the same segment)

(tangent \perp radius)