6.

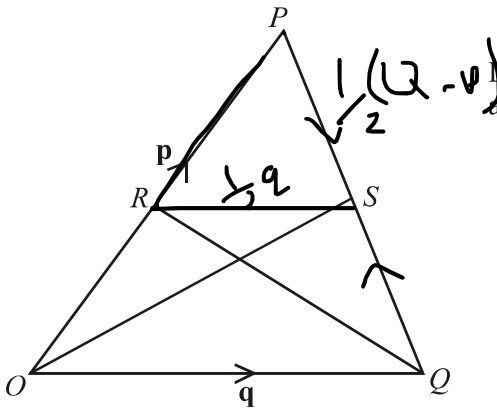

Diagram **NOT** accurately drawn

OPQ is a triangle.

R is the midpoint of *OP*.

S is the midpoint of *PQ*.

$\overrightarrow{OP} = p$ and $\overrightarrow{OQ} = q$

(i) Find $\overrightarrow{OS}$ in terms of p and q.

$\overrightarrow{OS} =$ .....

(ii) Show that *RS* is parallel to *OQ*.

(5 marks)