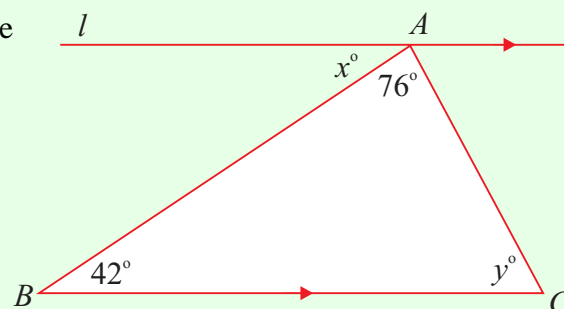


GEOMETRY (Q 4, PAPER 2)

2011

4. (a) In the diagram, the line l passes through the point A and is parallel to BC .

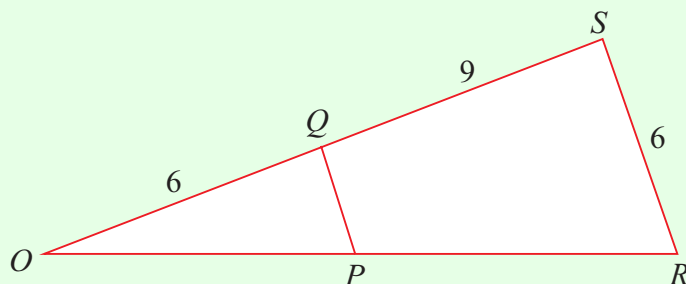


(i) Find x .

(ii) Find y .

- (b) Prove that the sum of the lengths of any two sides of a triangle is greater than that of the third side.

- (c) The triangle ORS is the image of the triangle OPQ under an enlargement of centre O . $|OQ| = 6$, $|QS| = 9$ and $|RS| = 6$.



(i) Find the scale factor of the enlargement.

(ii) Find $|PQ|$.

(iii) Given that the area of the triangle OPQ is 7.2 square units, find the area of the triangle ORS .

(iv) Find the area of the quadrilateral $PRSQ$.

ANSWERS

- | | | |
|---|-----------------------|------------------------|
| 4 | (a) (i) 42° | (ii) 62° |
| | (b) (i) 2.5 | (ii) 2.4 units |
| | (iii) 45 square units | (iv) 37.8 square units |