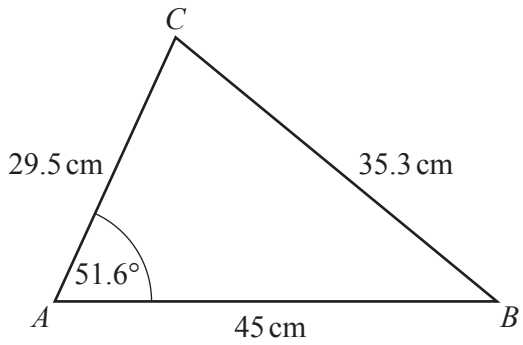
4 (a)



NOT TO SCALE

In triangle ABC, $AB = 45$ cm, $AC = 29.5$ cm, $BC = 35.3$ cm and angle $CAB = 51.6°$.

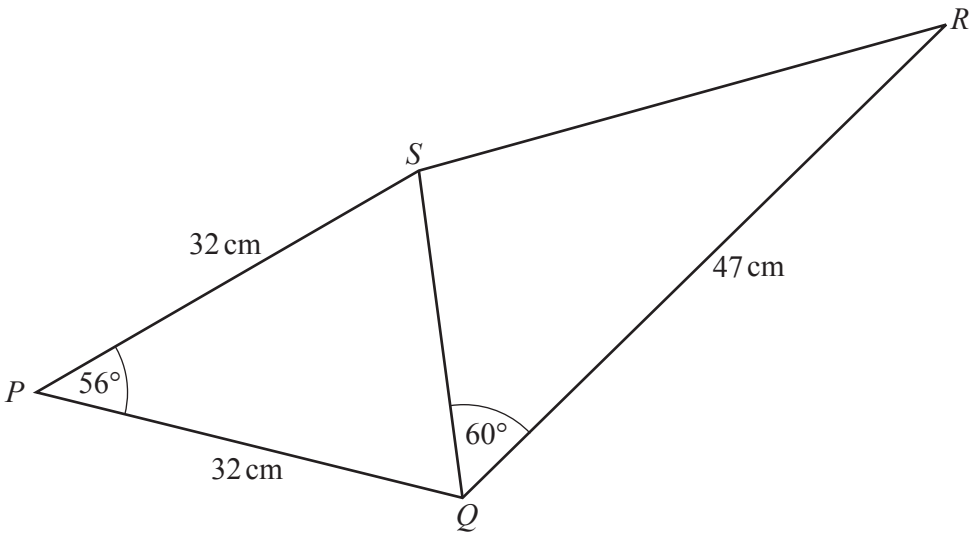
(i) Calculate angle ABC.

Angle $ABC =$ ..... [3]

(ii) Calculate the area of triangle ABC.

..... cm^2 [2]

(b)



NOT TO SCALE

The diagram shows a quadrilateral $PQRS$ formed from two triangles, PQS and QRS.
Triangle PQS is isosceles, with $PQ = PS = 32$ cm and angle $SPQ = 56°$.
$QR = 47$ cm and angle $SQR = 60°$.

(i) Calculate SR.

$SR =$ ..... cm [4]

(ii) Calculate the shortest distance from P to SQ.

..... cm [3]