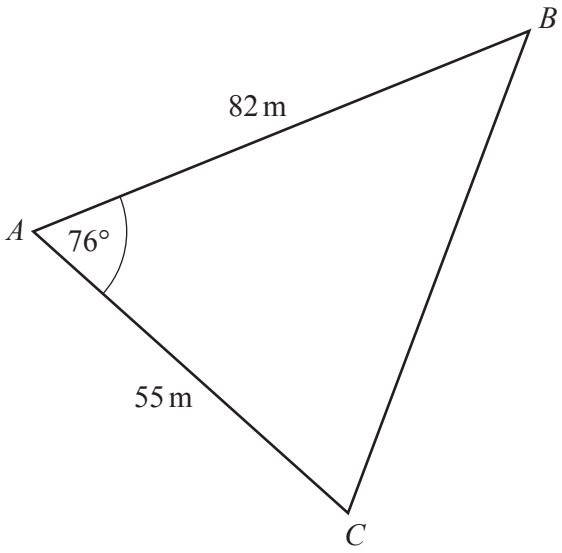
7



NOT TO SCALE

The diagram shows a field ABC.

(a) Calculate BC.

$BC =$ ..... m [3]

(b) Calculate angle ACB.

Angle $ACB =$ ..... [3]

(c) A gate, G, lies on AB at the shortest distance from C.

Calculate AG.

$AG =$ ..... m [3]

(d) A different triangular field PQR has the same area as ABC.
$PQ = 90$ m and $QR = 60$ m.

Work out the two possible values of angle PQR.

Angle $PQR =$ ..... or ..... [5]