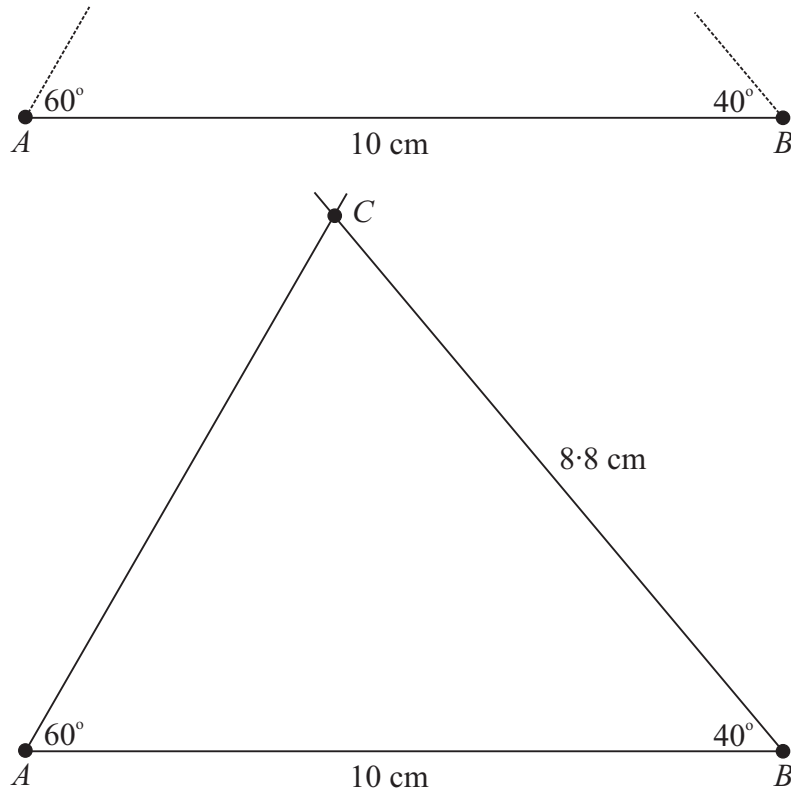


LC 2018: PAPER 2

QUESTION 6 (25 MARKS)

Question 6 (a)

(i) Construction:



(ii) $|BC| = 8.8 \text{ cm}$

MARKING SCHEME NOTES

Question 6 (a) (i) + (ii) [Scale 10D (0, 2, 5, 8, 10)]

2: • A labelled pilot diagram drawn

• One correct length or angle drawn

5: • Any two components correct and stops

• Both substitutions fully correct

8: • Construction correct but vertices incorrectly named or omitted and stops

Misreading: Works with $|AC|$

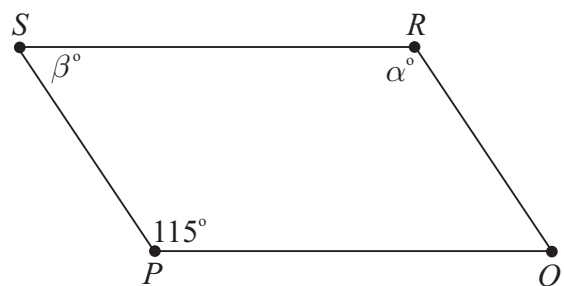
Note: Tolerance $\pm 0.2 \text{ cm}$

$|BC|$ must be ONE from the list: $[(8.6), (8.7), (8.8), (8.9), (9.0)]$

Question 6 (b)

(i) $\alpha = 115^\circ$ [Opposite angles in a parallelogram are equal]

$\beta = 65^\circ$ [Adjacent angles in a parallelogram add up to 180°]



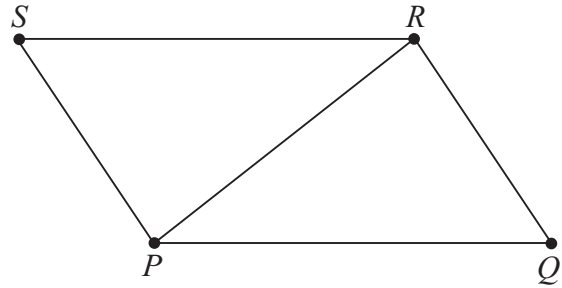
MARKING SCHEME NOTES

Question 6 (b) (i) [Scale 5B (0, 2, 5)]

2: • One correct angle

5: • Correct answers without work

- (ii) $|PR| = |PR|$ [Common side]
 $|SR| = |PQ|$ [Opposite sides of a parallelogram
 are equal in length]
 $|SP| = |RQ|$ [Opposite sides of a parallelogram
 are equal in length]
 $\therefore \triangle RSP \equiv \triangle PQR$ [SSS]



MARKING SCHEME NOTES

Question 6 (b) (ii) [Scale 10C (0, 3, 7, 10)]

3: • Any work of merit e.g. One correct statement

7: • Two statements & Two reasons correct

10: • Three statements & Three reasons correct