

LC 2014 (SET C): PAPER 2**QUESTION 4 (25 MARKS)****Question 4 (a)**

(i) $|AB| = 5$

(ii) $\text{Area} = \frac{1}{2}(5)(7) = 17.5$ $\text{Area} = \frac{1}{2}bh$

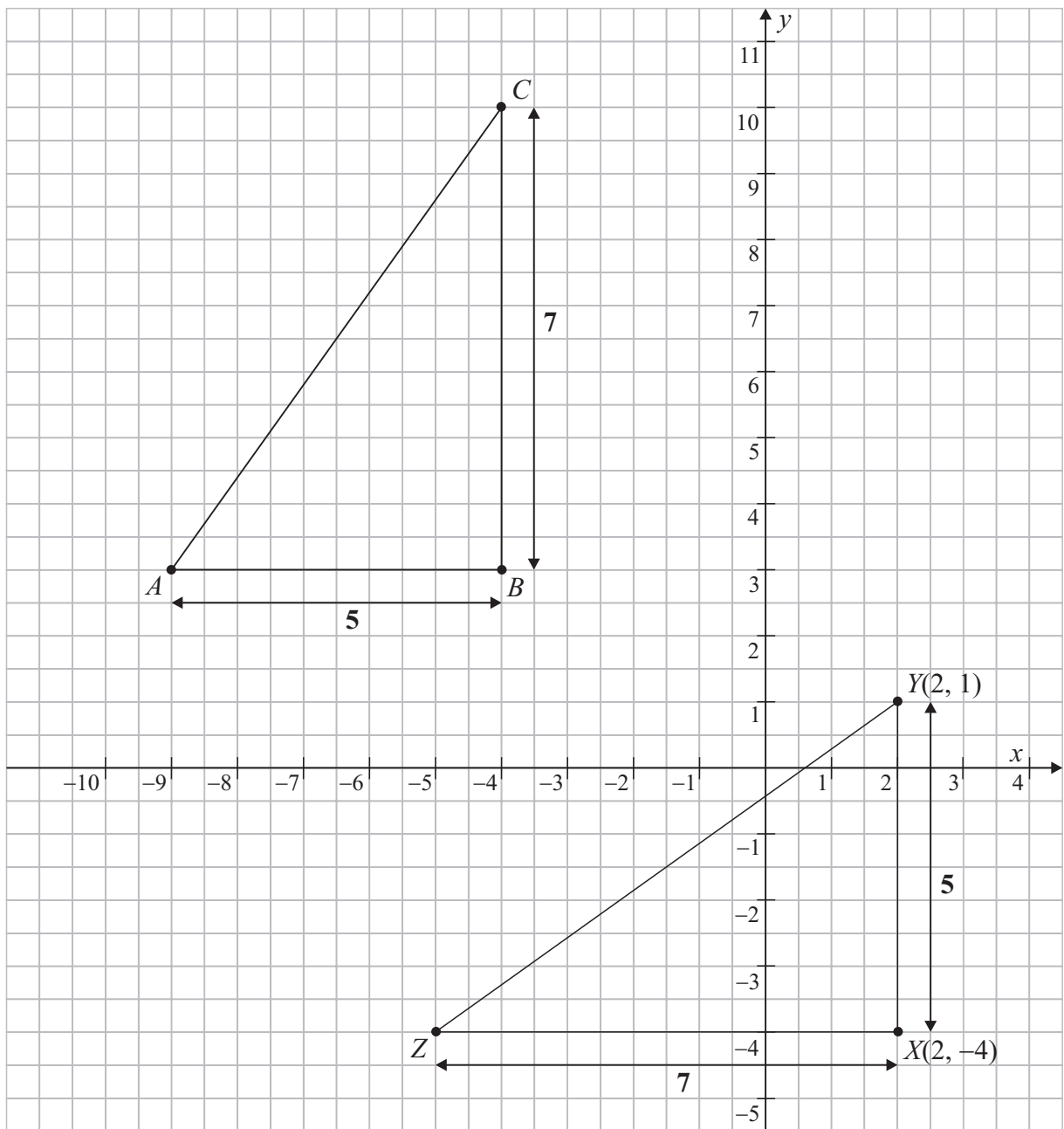
MARKING SCHEME NOTES**Question 4 (a) (i) [Scale 10B (0, 5, 10)]**

- 5:**
- Identifies correct relevant formula, e.g. writes $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ and stops
 - Any correct substitution into formula
 - Calculates a distance with one incorrect substitution
 - Incorrect reading of the scale diagram. (Distance = 10) i.e. Counting Boxes
- 10:**
- Accept correct answer without work

Question 4 (a) (ii) [Scale 10C (0, 4, 7, 10)]

- 4:**
- Writes a correct formula for the area of the triangle
 - Any correct work towards the area of triangle calculation
- 7:**
- A fully correct substitution
 - Calculates area with one incorrect substitution
- 10:**
- Accept correct answer without work

Question 4 (b) (i)



Question 4 (b) (ii)

$Z = (-5, -4)$

Triangles ABC and XYZ are congruent because (SAS):

$|AB| = |XY| = 5$

$|BC| = |XZ| = 7$

$|\angle ABC| = |\angle YXZ| = 90^\circ$

MARKING SCHEME NOTES

Question 4 (b) (i) (ii) [Scale 5C (0, 3, 4, 5)]

- 3:**
- Relevant work in one section. e.g. Plots one or both points correctly
 - Work of merit in at least one section
- 4:**
- One section correct