The Midpoint Theorem (Grade 10)

WORKSHEET

Name: ..... Class: .....

Date: .....

MARK ____ / 12

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 State the midpoint theorem. (2)

2 D and E are midpoints of AB and AC; BC = 14 cm. Find DE. (1)

3 D and E are midpoints of AB and AC; BC = 25 cm. Find DE. (1)

4 D and E are midpoints; DE = 6,5 cm. Find BC. (1)

5 D and E are midpoints; DE = 9 cm. Find BC. (1)

6 State the converse of the midpoint theorem. (2)

7 D is the midpoint of AB and DE ∥ BC. What can you conclude about E? (2)

8 Why are △ADE and △ABC similar? (2)

TOTAL: 12 marks

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