FOUNDATION

5.21 Vectors: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write down the vector from point P to point Q. P has position vector (2, 3) and Q has position vector (5, 1).

(Total for Question 1 is 1 mark)

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2 A = (4, 0) and B = (-1, 3). Work out A + B.

(Total for Question 2 is 2 marks)

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3 In a square grid, point A has position vector (1, 2) and point B has position vector (4, 5).

(a) Find the vector AB. **(2)**

(b) Give the position vector of the point C which is 1/3 of the way from A to B. Give your answer as a coordinate pair. **(3)**

(Total for Question 3 is 5 marks)

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Mark scheme · 5.21 Vectors: 10-minute Pack

Question 1

vector PQ = (3, -2) cao **B1**

Answer: (3, -2)

Question 2

add components: (4 + -1, 0 + 3) or correct method shown **M1**

(3, 3) cao **A1**

Answer: (3, 3)

Question 3

(a) subtract components: (4 - 1, 5 - 2) or equivalent **M1**

(a) (3, 3) cao **A1**

(a) Answer: (3, 3)

(b) use A + (1/3)AB or calculate fraction of difference **M1**

(b) compute coordinates: (1 + 1, 2 + 1) shown or equivalent **M1**

(b) (2, 3) cao **A1**

(b) Answer: (2, 3)

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