

Q	Scheme	Marks	AOs	Pearson Progression Step and Progress descriptor
1a	States that $a = -4$, $b = 2 \Rightarrow a + b = 0$ may be seen.	M1	1.1b	AOs Understand Newton's first law and the concept of equilibrium.
	States that $b = -5$, $-4 + 9 + b = 0$ may be seen.	M1	1.1b	
		Q1		
1b	States that $R = 21 - 9j$ (N).	M1	1.1b	AOs Calculate resultant forces using vectors.
	States that the magnitude of $R = \sqrt{21^2 + (-9)^2}$	M1	1.1b	
	States $R = \sqrt{522}$ (N) or $R = 22.84 \dots$ (N). Accept ans 22.8 (N)	A1	1.1b	
		Q1		
1c	$\tan \theta = \frac{9}{21}$ States	M1	1.1b	AOs Calculate resultant forces using vectors.
	Finds the value of θ . $\theta = 23.43 \dots$ ($^\circ$). Accept ans $\theta = 23.5$ ($^\circ$)	A1 ft	1.1b	
		Q1		
				(7 marks)
Notes				
1b Award second method mark and accuracy mark for a correct answer using their R .				
1c Award 3 marks for correct answer using their R vector from part a.				

Gcse Mathematics 1ma0 Foundation Tier Answers

Yan Bai



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first teaching from 2015 this Student Book provides full coverage of the new GCSE Mathematics qualification With a strong focus on developing problem solving skills reasoning and fluency it helps students understand concepts apply techniques solve problems reason interpret and communicate mathematically Written by experienced teachers it also includes a solid breadth and depth of quality questions set in a variety of contexts GCSE Mathematics Online an enhanced digital resource incorporating progression tracking is also available as well as a free Teacher s Resource Problem solving Books and Homework Books

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