

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 b.				

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