International GCSE Further Pure Mathematics – Paper 2R mark scheme

Question	Scheme	Marks
number		
1(a)	$\underset{OB}{\longrightarrow} = \underset{OA}{\longrightarrow} + \underset{AB}{\longrightarrow} \text{ or } 6\mathbf{i} + 8\mathbf{j} = \underset{OB}{\longrightarrow} - (3\mathbf{i} - 2\mathbf{j}) \text{ oe}$	M1
	9i +6i	A1
	91 TOJ	[2]
(b)	$\sqrt{6^2 + 8^2}$ or 10 (from Pythagorean triple)	B1
	VO +8 0/ 10(1101111 yttlagorean triple)	[1]
(c)	1 (4 21)	
	$(\pm)\frac{1}{"10"}(6\mathbf{i}+8\mathbf{j})$	M1 A1
	10	[2]
Total 5 marks		

Part	Mark	Additional Guidance
(a)	M1	Correct vector path written, can be implied by correct addition of vectors
		OR correct vector statement together with correct substitution of the given
		vectors (where $\underset{OB}{\longrightarrow}$ is not the subject)
	A1	9i +6j
(b)	B1	Need not be simplified
(c)	M1	Correctly uses their magnitude from part (b)
	A1	Correct vector
		Penalise column vector notation for answer first time only