

Q	Marking instructions	AO	Marks	Typical solution
4(a)	States $-\frac{2}{3}$	1.1b	B1	Gradient = $-\frac{2}{3}$
	Subtotal		1	

Q	Marking instructions	AO	Marks	Typical solution
4(b)(i)	Obtains perpendicular gradient of $\frac{3}{2}$ PI Or Obtains midpoint of AB as $\left(6, \frac{p-2}{2}\right)$	1.1b	B1	$\therefore$ Gradient of $AB = \frac{3}{2}$ $\frac{p - (-2)}{10 - 2} = \frac{3}{2}$ $p = 10$
	Forms an equation in p by using coordinates of A and B and their gradient of AB ($\neq$ their gradient from (a)) Or Substitutes their midpoint into the equation of L PI by correct value of p Or Forms an equation for AB and substitutes $(10, p)$	3.1a	M1	
	Obtains $p = 10$	1.1b	A1	
	Subtotal		3	

Q	Marking instructions	AO	Marks	Typical solution
4(b)(ii)	Writes their correct midpoint FT their value of p	1.1b	B1F	(6,4)
	Subtotal		1	

	Question 4 Total		5	
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