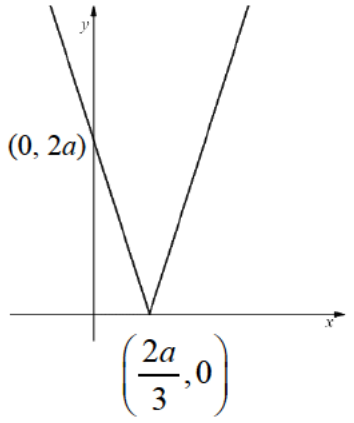
Question	Scheme	Marks	AOs
10(a)		B1 B1	1.1b 1.1b
		(2)	
(b)	$3x-2a=x+a \Rightarrow x=\ldots$ or $3x-2a=-x-a \Rightarrow x=\ldots$	M1	1.1b
	$3x-2a=x+a \Rightarrow x=\ldots$ and $3x-2a=-x-a \Rightarrow x=\ldots$	M1	2.1
	$x=\frac{a}{4},\frac{3a}{2}$	A1	1.1b
	$\frac{a}{4} \leqslant x \leqslant \frac{3a}{2}$	A1	2.5
		(4)	
(c)	Maximum value is $5a$	B1	2.2a
	$x=\frac{3a}{2} \Rightarrow y=5a-\left\lvert\frac{1}{2}a-\frac{3a}{2}\right\rvert=\ldots$	M1	3.1a
	$4a \leqslant g(x) \leqslant 5a$	A1	1.1b
		(3)	
			(9 marks)

Notes

(a)
B1: V shape
B1: Fully correct sketch including intercepts
(b)
M1: Attempts to solve one of the equations shown
M1: Considers both possible cases and attempts to solve both of the equations shown
A1: Correct values
A1: Correct range using the correct notation
(c)
B1: Deduces the maximum value
M1: Uses the upper limit from part (b) to find the minimum value
A1: Correct range