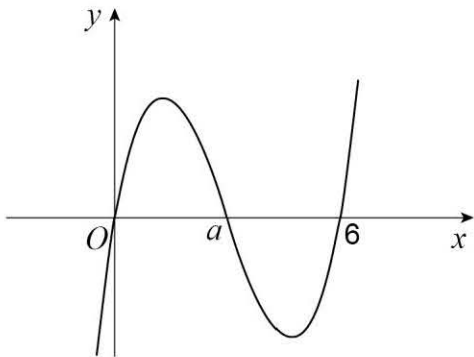
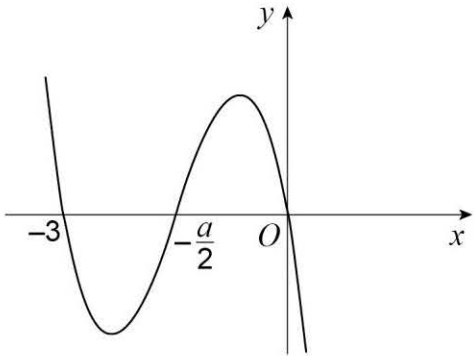


Q	Marking instructions	AO	Marks	Typical solution
11(a)	Draws cubic graph with exactly two turning points	1.1a	M1	
	Draws cubic graph of correct orientation passing through the origin and positive x -axis at two points.	1.1b	A1	
	Draws fully correct sketch with x -axis intercepts correctly labelled a and 6. Ignore labelling on the y -axis.	1.1b	R1	
	Subtotal		3	

Q	Marking instructions	AO	Marks	Typical solution
11(b)	Draws cubic graph of correct orientation passing through the origin and negative x -axis at two points. Or Substitutes $-2x$ into $f(x)$ Or Describes the reflection in the y -axis and a stretch of scale factor $\frac{1}{2}$ in the x -direction or a stretch scale factor $-\frac{1}{2}$ in the x -direction.	3.1a	M1	
	Draws fully correct sketch with x -axis intercepts correctly labelled $-\frac{a}{2}$ and -3.	2.2a	R1	
	Subtotal		2	

	Question 11 Total		5	
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