Q	Marking instructions	AO	Marks	Typical solution
8(a)	Differentiates with at least one term correct	1.1a	M1	$\frac{dy}{dx} = 2x - 8$
	Obtains $2x - 8$	1.1b	A1	
	Subtotal		**2**	

Q	Marking instructions	AO	Marks	Typical solution
8(b)	Substitutes $x = 3$ into their $\frac{dy}{dx}$ to obtain a value	1.1a	M1	When $x = 3$, $y = 5$ When $x = 3$, $\frac{dy}{dx} = -2$ $y - 5 = -2(x - 3)$ When $x = 0$, $y = 11$ When $y = 0$, $x = \frac{11}{2}$ Area $= \frac{1}{2} \times \frac{11}{2} \times 11$ $= \frac{121}{4}$
	obtains $\frac{dy}{dx} = -2$	1.1b	A1	
	Uses an appropriate method to find a value of the x- intercept or the y- intercept	3.1a	M1	
	Obtains $x = \frac{11}{2}$ **and** $y = 11$	2.2a	A1	
	Forms an expression for the area of OAB using their x- and y-intercepts	3.1a	M1	
	Obtains 30.25 OE	1.1b	A1	
	Subtotal		**6**	

	Question 8 Total		**8**	