Section B

8	(a)	f(2) = -10 **and** f(3) = 4	1	Accept in part (b)
	(b)	One value between 2 and 3 correctly substituted	1	Results must be seen
		One value between 2·5 and 3 correctly substituted	1	Results must be seen In each case, accept results truncated or corrected to 1 s.f. or better
		2·8	1	
			4	
9	(a)	$7\cdot65\times10^{-4}$	1	
	(b)	$9\cdot7\times10^{8}$	2	**W1:** figs 96 to 97 or **W1:** 26100 (o.e.) seen
			3	
10	(a)	$2x^5$	1	Accept $2\times x^5$
	(b)	$x^2(2+x)$	1	
	(c)	$x^2-2x-35$	2	**W1:** 2 terms correct or **W1:** $x^2+5x-7x-35$
			4	
11		14800	3	**M2:** $\frac{9620}{100-35}(\times100)$, implied by figs 148 or **W1:** use of 9620 = 65%
			3	
12		Point plotted at (1·5, 397) Point plotted at (2·5, 404)	2 2	**W1:** 397 seen or plotted **W1:** 404 seen or plotted **W3:** both plotted at ends of intervals Allow ± 1mm in plotting After **W0:** **M1:** use of $\frac{\sum x}{4}$ for one of the two intervals
			4	
13	(a)	122° to 122·1°	4	**M3:** 90 + ($\cos^{-1}\frac{10\cdot6}{12\cdot5}$) **W3:** 32° to 32·1° or **W2:** 57·9° to 58° **M2:** $\cos^{-1}\frac{10\cdot6}{12\cdot5}$ or **M1:** cos or sin = $\frac{10\cdot6}{12\cdot5}$
	(b)	18·4 to 18·5	3	**M2:** $\frac{10\cdot6}{\cos55}$ **or** $\frac{10\cdot6}{\sin35}$ **M1:** cos 55 = $\frac{10\cdot6}{AB}$ or **M1:** sin 35 = $\frac{10\cdot6}{AB}$ Evidence of scale drawing implies **W0**, **W0**
			7	
			25	
		Paper Total = 50		