



12	i	$\log a + \log (b^t)$ www clear use of $\log (b^t) = t \log b$ dep	B1 B1	condone omission of base throughout question	2
	ii	(2.398), 2.477, 2.556, 2.643, 2.724 points plotted correctly f.t. ruled line of best fit f.t.	T1 P1 1	On correct square	3
	iii	$\log a = 2.31$ to 2.33 $a = 204$ to 214 $\log b = 0.08$ approx $b = 1.195$ to 1.215	M1 A1 M1 A1	fit their intercept fit their gradient	4
	iv	eg £210 million dep	1	their £a million	1
	v	$\frac{\log 1000 - \text{their intercept}}{\text{their gradient}} = \frac{3 - 2.32}{0.08}$ $= 8.15$ to 8.85	M1 A1	 or B2 from trials	2

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