11	The height $h \text{ cm}$ of a sunflower plant $t$ days after planting the seed is modelled by $h = a + b \ln t$ for $t \ge 9$ , where $a$ and $b$ are constants. The sunflower is 10 cm tall 10 days after planting and 200 cm tall 85 days after planting.			
	(a)	(i)	Show that the value of $b$ which best models these values is 88.8 correct to 3 significant figures.	nt [2]
		(ii)	Find the corresponding value of $a$ .	[1]
	(b)	(i)	Explain why the model is not suitable for small positive values of $t$ .	[1]
		(ii)	Explain why the model is not suitable for very large positive values of $t$ .	[1]
	(c)		ow that the model indicates that the sunflower grows to 1 m in height in less than half the it takes to grow to 2 m.	ne [2]
	(d)	Fine	d the value of t for which the rate of growth is 3 cm per day.	[3]