2	The height of the first part of a rollercoaster track is $h$ m at a horizontal distance of $x$ m from start. A student models this using the equation $h = 17 + 15\cos 6x$ , for $0 \le x \le 40$ , using the of $h$ given when their calculator is set to work in degrees.		
	(a)	Find the height that the student's model predicts when the horizontal distance from the star $40\mathrm{m}$ .	t is [1]
	(b)	The student argues that the model predicts that the rollercoaster track will achieve a maximum height of 32 m more than once because the cosine function is periodic.	
		Comment on the validity of the student's argument.	[2]