fixed support troll	fixed suppor
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spring	g
When displaced horizontally, the trolley oscillated	with simple harmonic motion.
To determine the time period $T$ of oscillation of the rolley from its equilibrium position and released instarted a stopwatch. She stopped the stopwatch what starting point.	e trolley, the student displaced the t. As she released the trolley, she
(a) Explain how the procedure used by the student been improved.	to determine T could have
been improved.	(6)
(b) The mass of the trolley was $M$ . The student add determined the new value of $T$ . She repeated the of $m$ .	
She plotted a graph of $T^2$ against $m$ .	
Explain how she could use her graph to determ	
	(4)

(Total for Question 5 = 10 marks)