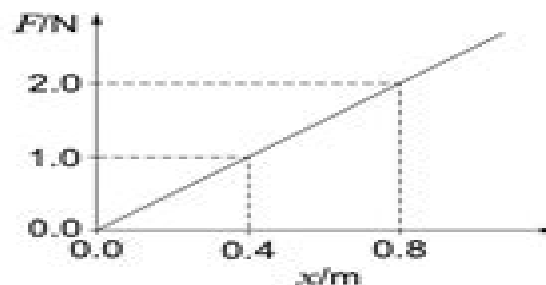


2. (a) The graph shows how the force, F , needed to stretch a simple spring varies with the extension, x , of the spring. The spring obeys Hooke's law.



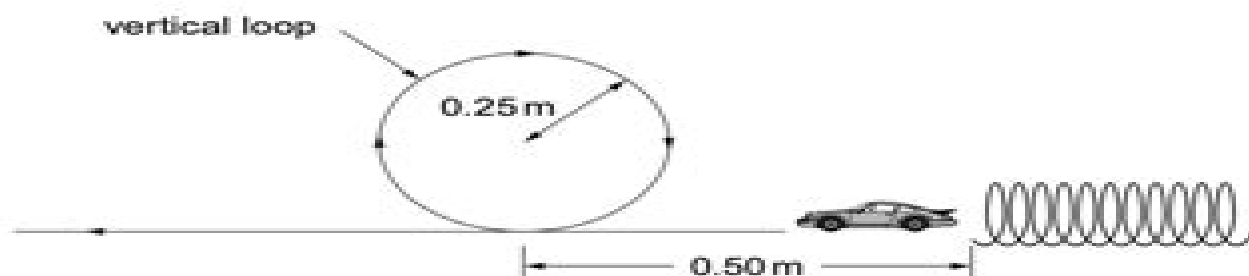
- (i) Calculate the work done in stretching the spring 0.4 m from its unstretched position.

[2]

- (ii) Explain why the work done to stretch the spring 0.8 m from its unstretched position is **not twice** your answer to part (a)(i).

[2]

- (b) The spring in part (a) is used to propel a toy car of mass 30 g along a track which contains a vertical loop of radius 0.25 m.



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Jeremy Pollard



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