SECTION B

Answer ALL questions in the spaces provided.

11 A rock falls from rest through a small distance s to the surface of Mars. The rock hits Mars with velocity v_M.

Another rock falls from rest through distance s to the surface of Earth and hits Earth with velocity v_E.

Calculate the ratio $\frac{v_M}{v_E}$.

acceleration due to gravity on Mars = $0.38g$

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$\frac{v_M}{v_E}$ = ...

(Total for Question 11 = 3 marks)