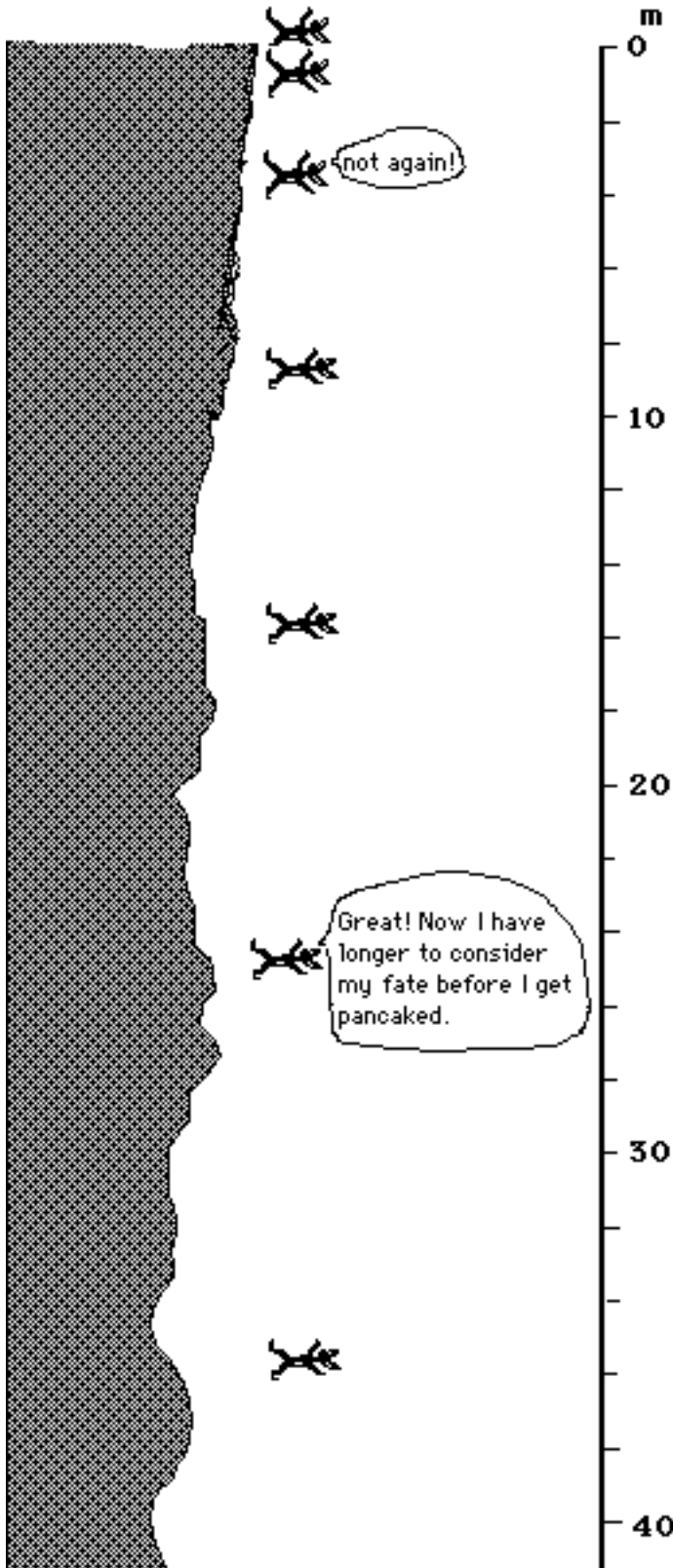
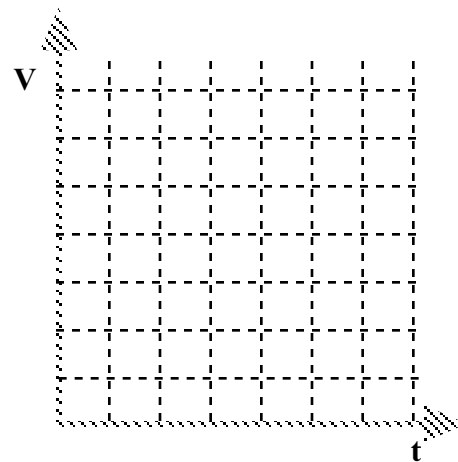


Wile E. Coyote in Free Fall on Newtonia's Moon

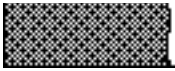
Wile E. slips off the edge of a cliff and was photographed at one second intervals as he underwent free fall. Complete the table below, plot final velocity vs time, then answer the questions.



T (s)	y (m)	\bar{V} (m/s)	V_f (m/s)



1. Write the equation for the graph above.
2. Using your graph, determine the value of the acceleration.
3. Using your graph, determine the displacement during the first 3 s.
4. Using the mathematical model, determine the displacement during the first 3 s.
5. How does the gravity on the moon compare to that of Newtonia?



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