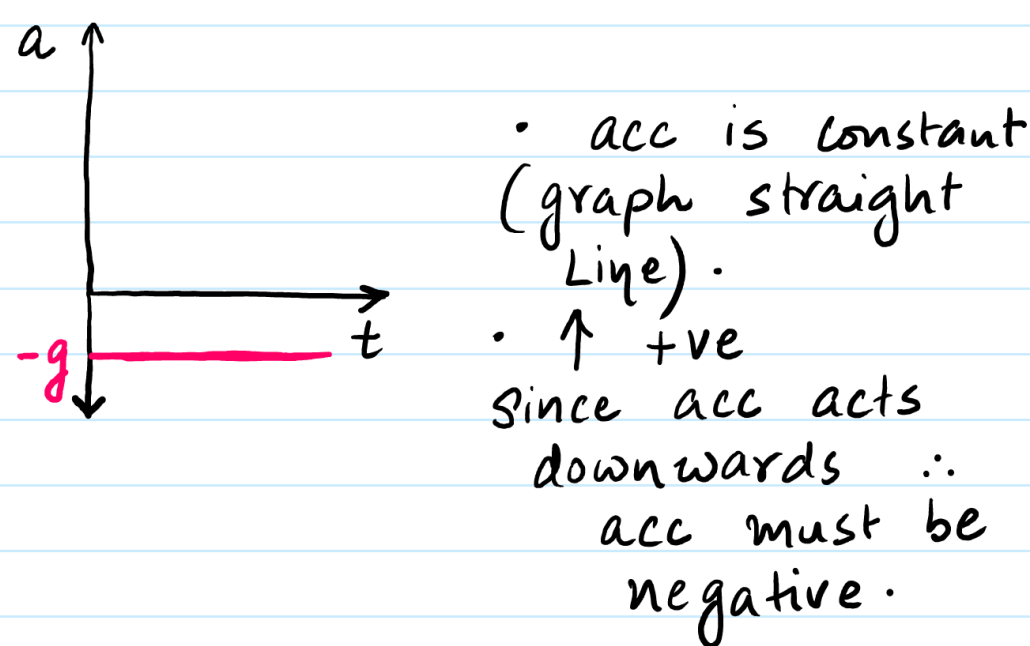
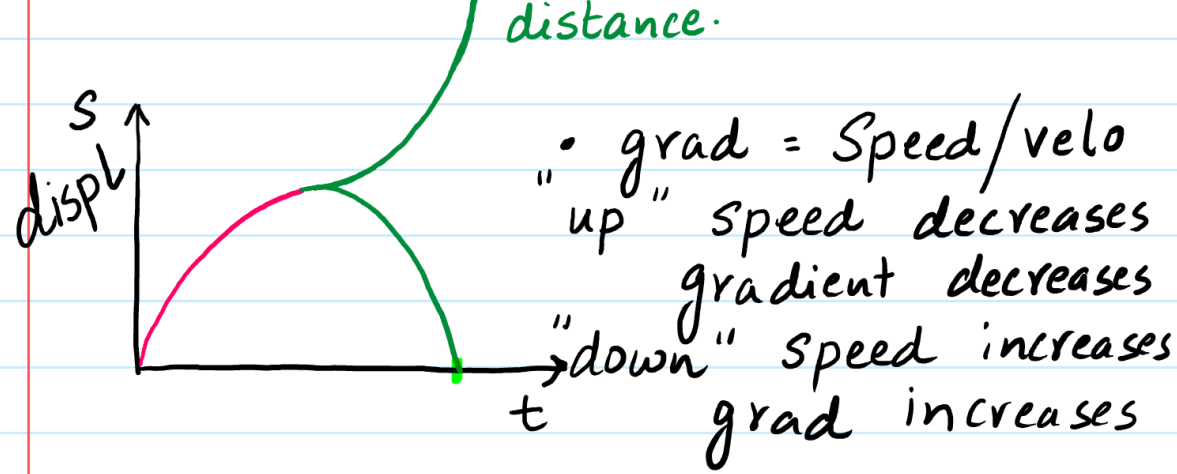
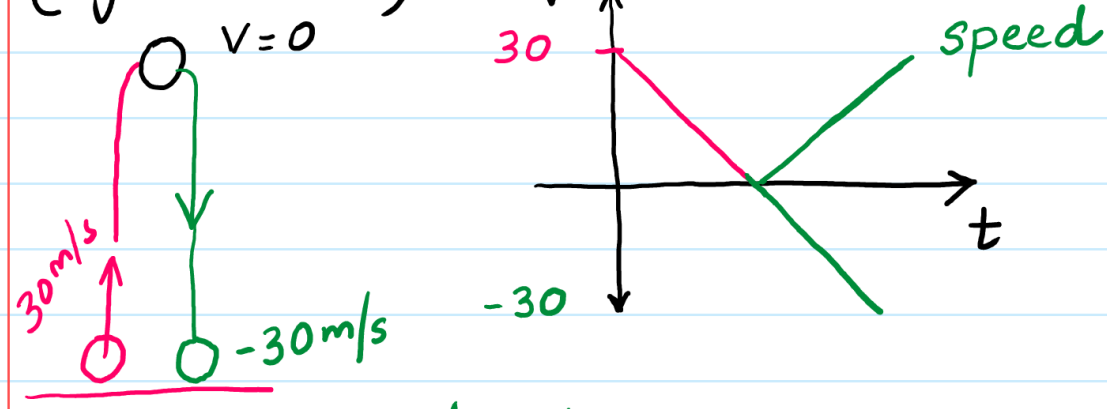
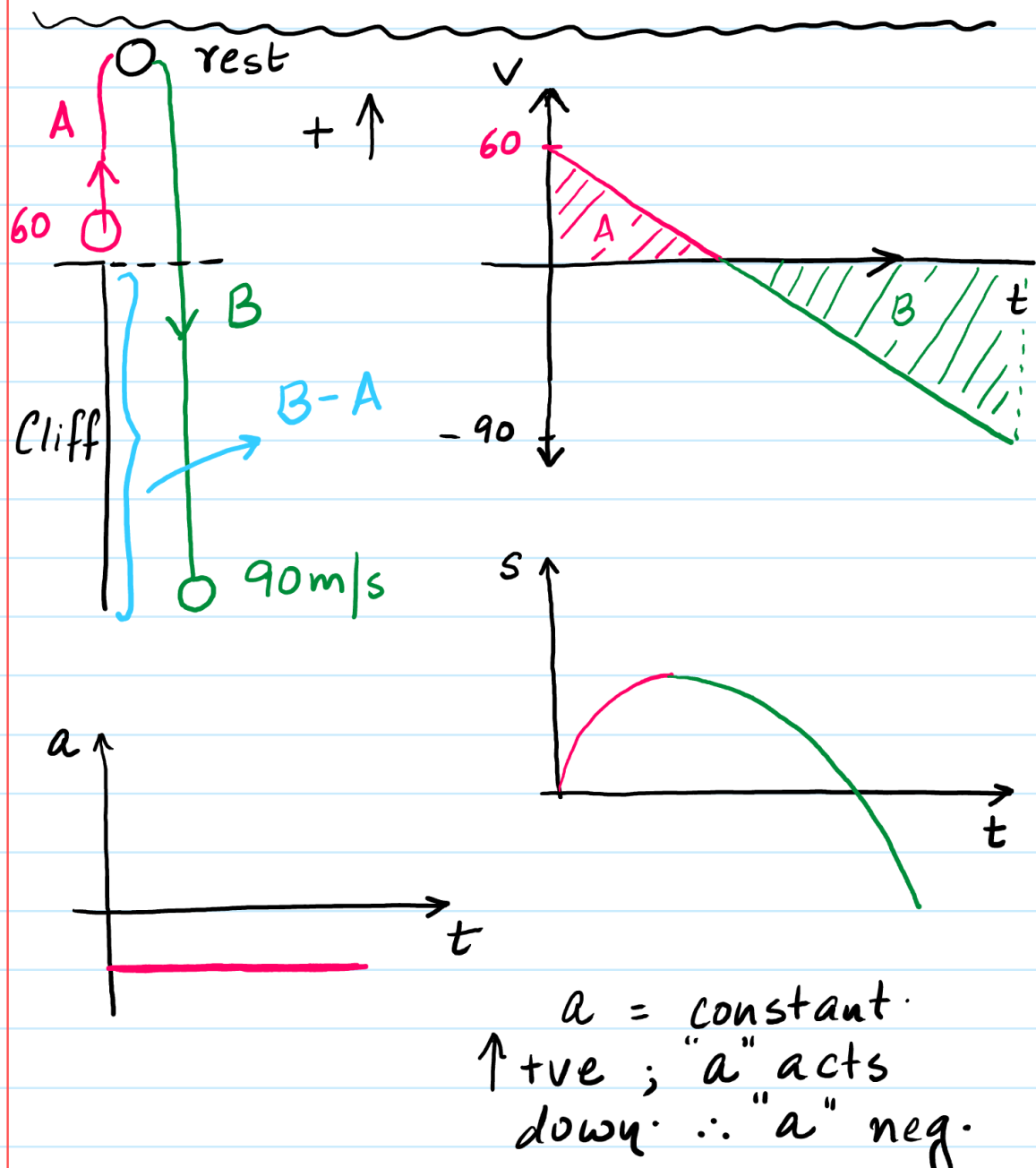
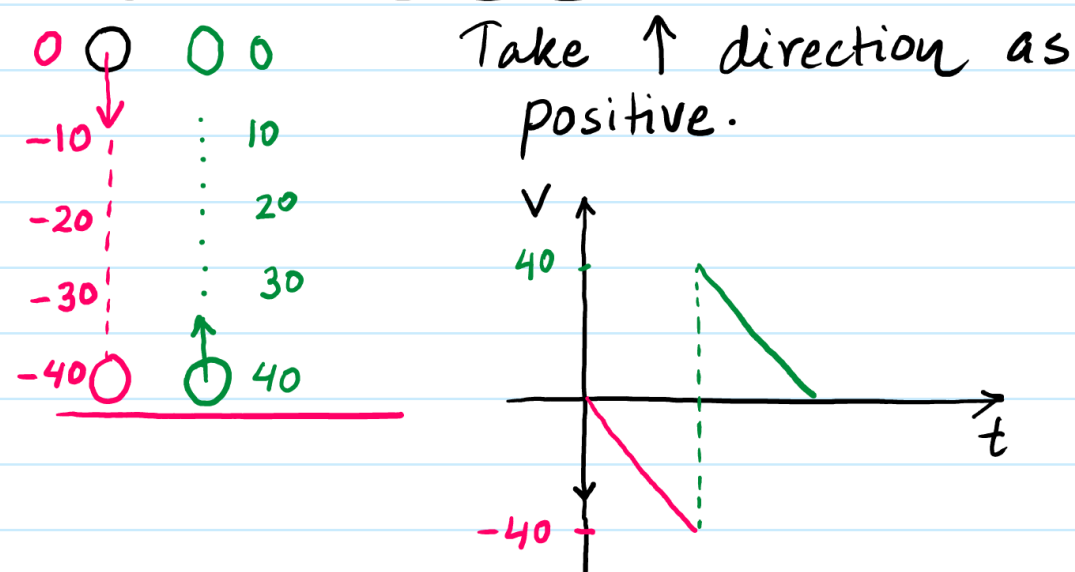
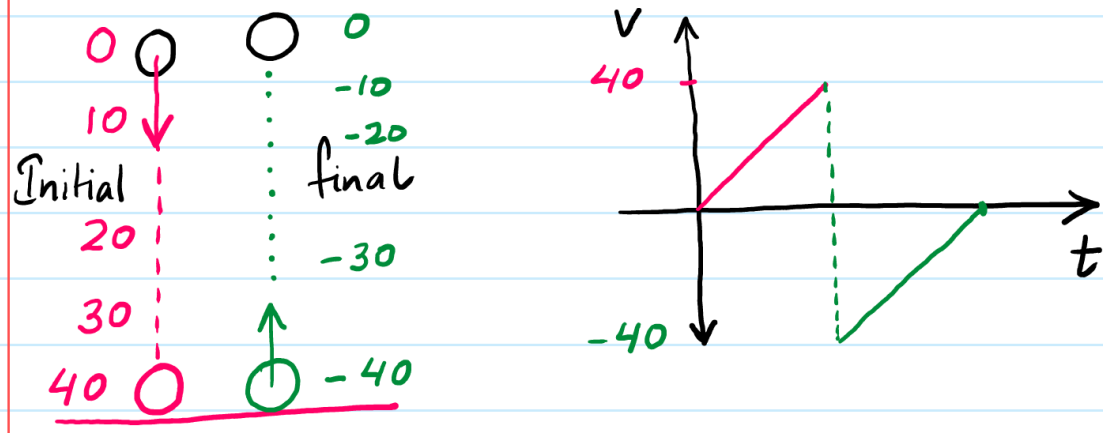


Graphs of v/t , s/t and a/t for an object moving under the influence of gravity.

Q: An obj is projected vertically upwards with 30m/s. It reaches its max. height & returns back to ground. Taking the upward direction as positive construct the graphs (ignore AR).

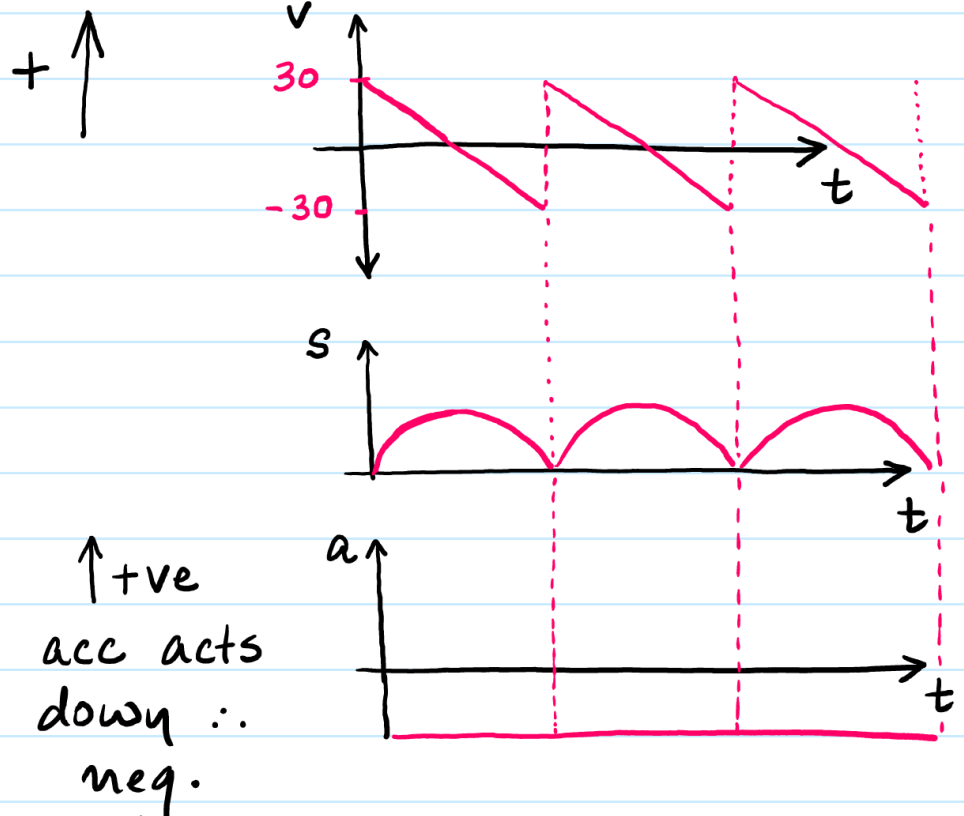


Q: A ball is released from rest. It hits the ground with 40m/s & rebounds back to reach its starting pt. Taking ↓ direction as positive sketch the following graphs (ignore AR).



Graph (in case of multiple bounces)

"multiple bounces." collision is "Elastic" Elastic ∴ No Loss of energy upon impact with the ground.



↑ +ve acc acts down ∴ neg.

Same condition but InElastic Collision

InElastic ∴ Loss of Energy upon Impact

