Shy divPg

1 $\frac{dv}{dt} = -9.8$

$t=0, v=0$

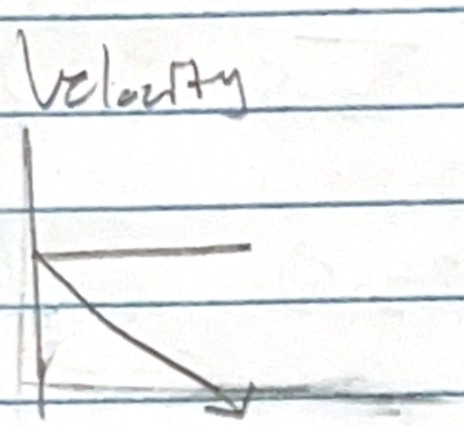
$v = -9.8t + C \rightarrow v = -9.8t$

2 $\frac{dh}{dt} = v = -9.8t$

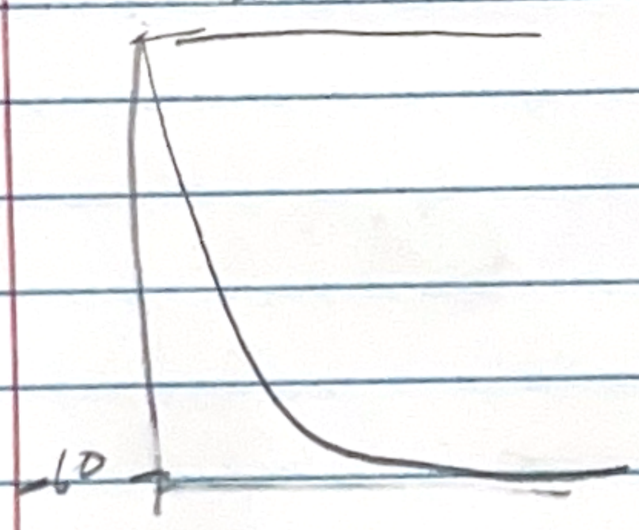
3 $\pm h = -4.9t^2 + 5000$

4 $t = 31.9$ sec, $h = 0$, $v = -313$ m/s

5



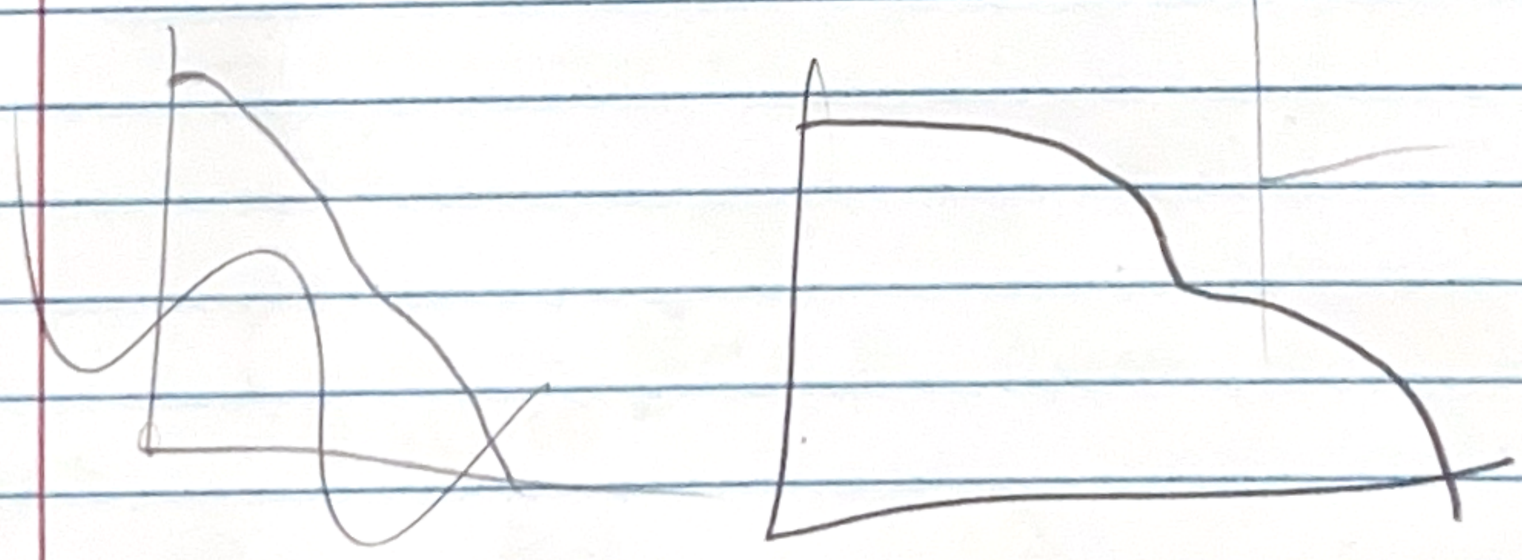
6



$t = 89$ sec to reach strain

$v = -87.1 \frac{m}{s}$, mph $= \pm 127.9$ mph

7



8 Terminal Velocity is a lot higher and always changing due to Fluvarity k-value → hard to graph b/c step size keeps