

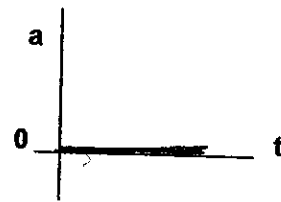
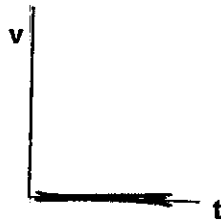
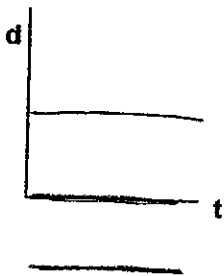
Name \_\_\_\_\_

Date \_\_\_\_\_

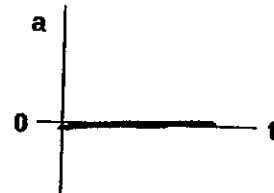
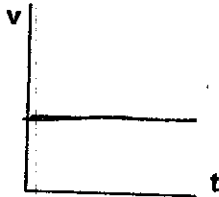
COMMACK HIGH SCHOOL  
Regents Physics

1. Sketch the graphs of displacement vs. time, velocity vs. time, and acceleration vs. time for each motion. (d=displacement, v=velocity, a=acceleration, t=time)

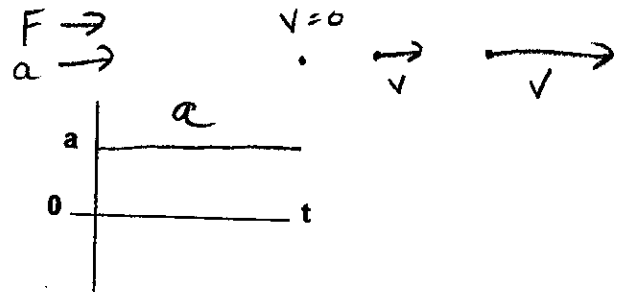
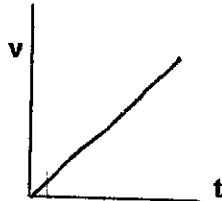
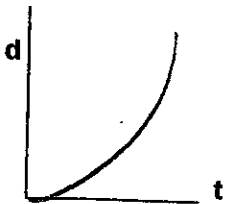
**standing still**



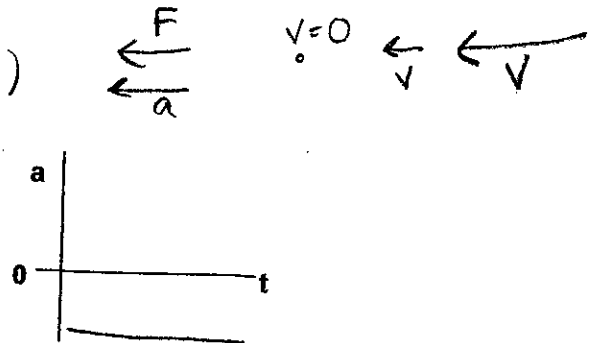
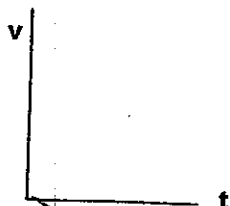
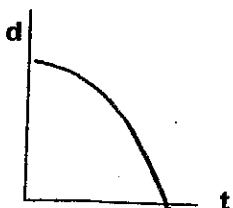
**zero acceleration** ( $v = \text{positive}$ ,  $d_i = 0$ )



**positive acceleration** ( $v_i = 0$ ,  $d_i = 0$ )



**negative acceleration** ( $v_i = 0$ ,  $d_i = \text{positive}$ )



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