

Physics 11 Unit 2 - Supplementary Review for Final Exam

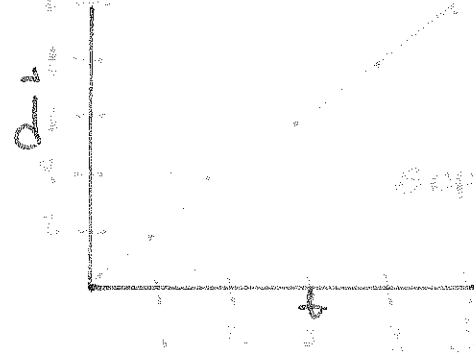
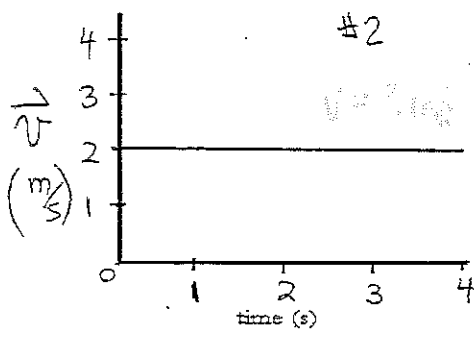
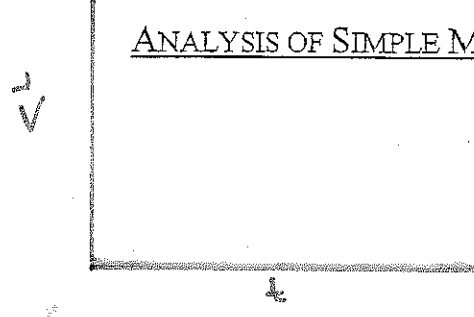
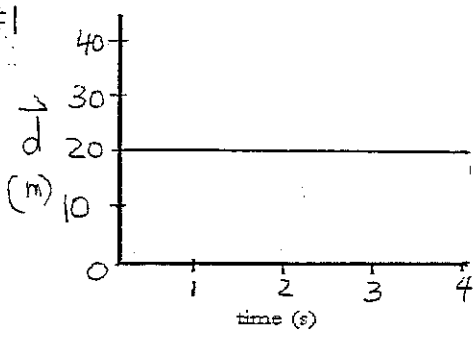
Fig. 2.17

	$\vec{d}-t$ graphs	$\vec{v}-t$ graphs	Velocity	Acceleration	Example
Stopped			$\vec{v} = 0$	$\vec{a} = 0$	
Constant velocity			$\vec{v} = 0$	$\vec{a} = 0$	
			$\vec{v} > 0$	$\vec{a} = 0$	
Speeding up			$\vec{v} < 0$	$\vec{a} = 0$	
			$\vec{v} > 0$ +	$\vec{a} > 0$ +	
Slowing down			$\vec{v} < 0$ -	$\vec{a} > 0$ /	
			$\vec{v} > 0$ +	$\vec{a} < 0$ -	
			$\vec{v} < 0$ -	$\vec{a} > 0$ +	

Each $\vec{v}-t$ graph can be generated from its corresponding $\vec{d}-t$ graph by taking slopes of the $\vec{d}-t$ graph at selected times and plotting them on a $\vec{v}-t$ graph.

1) Draw corresponding \vec{d} vs t or \vec{v} vs t graph
 2) describe the motion in words

ANALYSIS OF SIMPLE MOTION

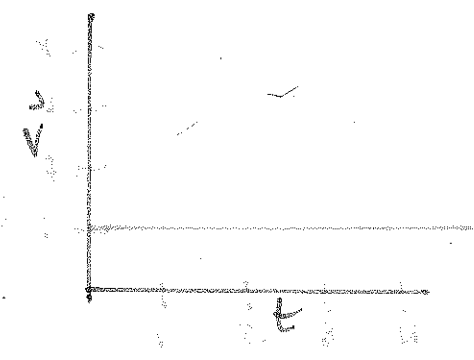
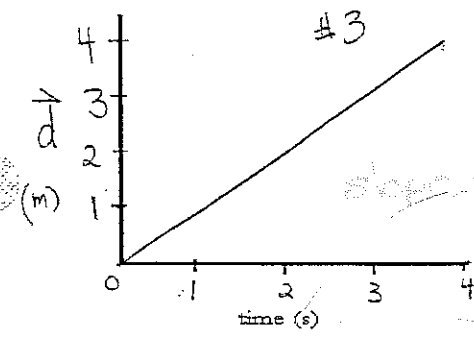


constant velocity

constant velocity

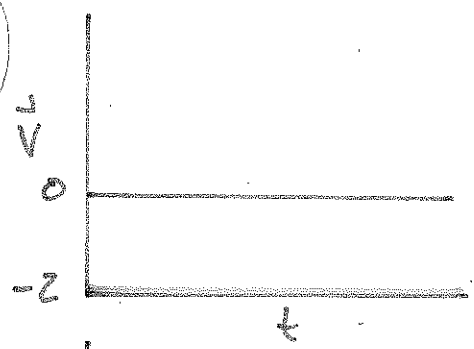
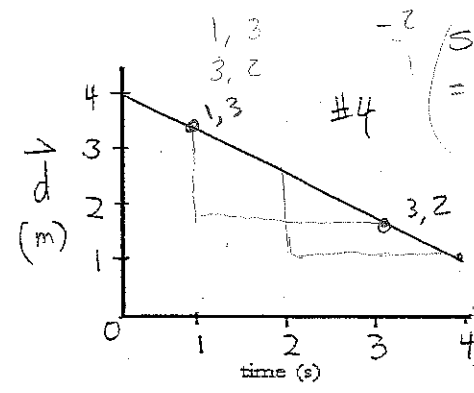
speed = 2 m/s

2 m/s



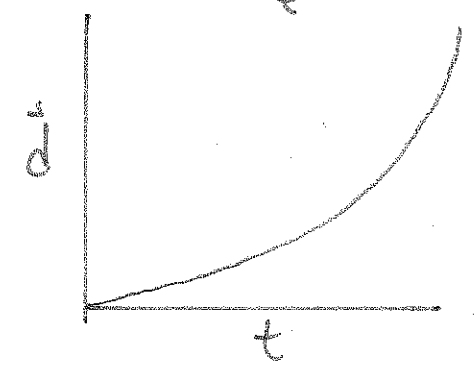
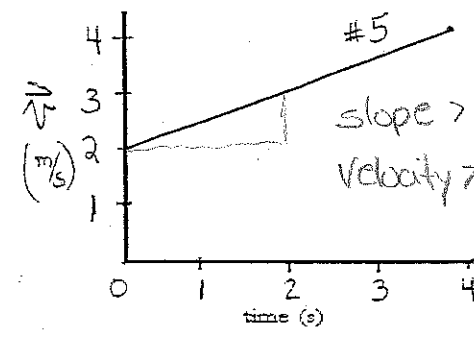
constant velocity

velocity = 1 m/s



constant velocity

velocity = -2 m/s



speeding up
 slope > 0
 velocity > 0