

# Physics 11 Unit 2 - Supplementary Review for Final Exam

Fig. 2.17

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

Each  $\vec{v}-t$  graph can be generated from its corresponding  $\vec{a}-t$  graph by taking slopes of the  $\vec{a}-t$  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

