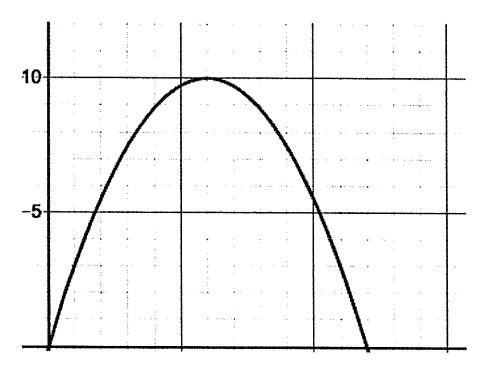
Describing Motion Using Displacement vs. Time Graphs

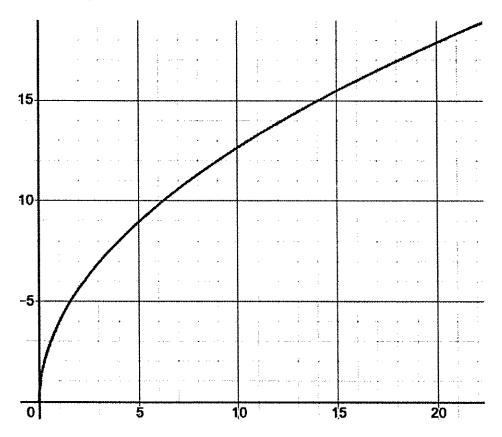
1. Time is measured in seconds and displacement is measured in meters. North is considered positive.



Label the graph and its axes.
 Determine the following:

Time taken	Average velocity	
Time intervals (not instants) when the object is at rest	Average velocity during t=[0,6]s	
Initial displacement	Average velocity during t=[6,8]s	
Final displacement	Instantaneous velocity at t=6.0 s	
Change in displacement	Instantaneous velocity at t=3.0 s	
Distance travelled	Instantaneous velocity at t=9.0 s	

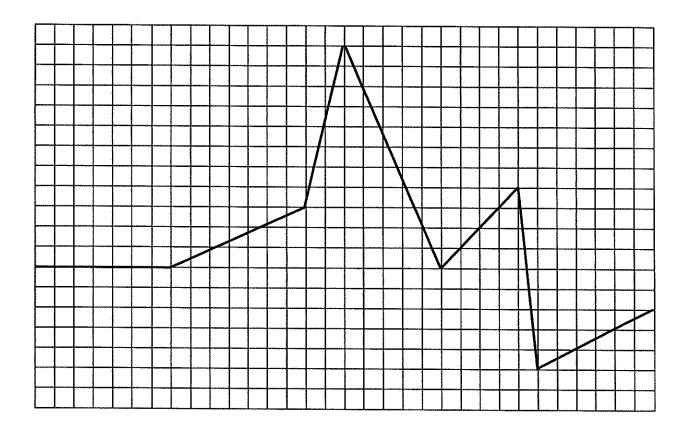
2. Time is measured in seconds and displacement is measured in meters. Down is considered positive.



Label the graph and its axes.
 Determine the following:

Time taken	Average velocity	
Time intervals (not	Average velocity	
instants) when the	during t=[5,20]s	
object is at rest		
Initial displacement	Average velocity	
	during t=[6,8]s	
Final displacement	Instantaneous	
	velocity at t=20.0 s	
Change in	Instantaneous	
displacement	velocity at t=3.0 s	
Distance travelled	Instantaneous	
	velocity at t=9.0 s	

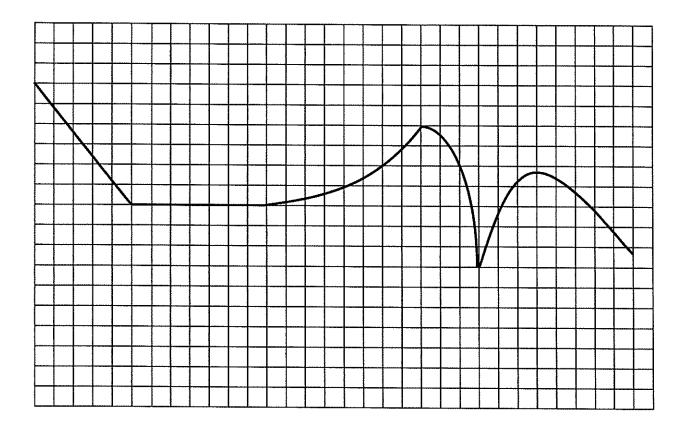
3. Time is measured in seconds and displacement is measured in meters. Right is considered positive.



Label the graph and its axes.
 Determine the following:

Time taken	Average velocity	
Time intervals (not instants) when the	Average velocity during t=[0,6]s	
object is at rest		
Initial displacement	Average velocity	***************************************
	during t=[14,23]s	
Final displacement	Instantaneous	
	velocity at t=7.0 s	
Change in	Instantaneous	
displacement	velocity at t=3.0 s	
Distance travelled	Time interval with	
	greatest speed.	

4. Time is measured in seconds and displacement is measured in meters. West is considered positive.



• Label the graph and its axes. Determine the following:

Time taken	Average velocity	
Time intervals (not	Average velocity	
instants) when the object is at rest	during t=[0,12]s	
Initial displacement	Average velocity	
	during t=[20,23]s	
Final displacement	Instantaneous	
	velocity at t=14.0 s	
Change in	Instantaneous	
displacement	velocity at t=26.0 s	
Distance travelled	Instantaneous	
	velocity at t=23.0 s	