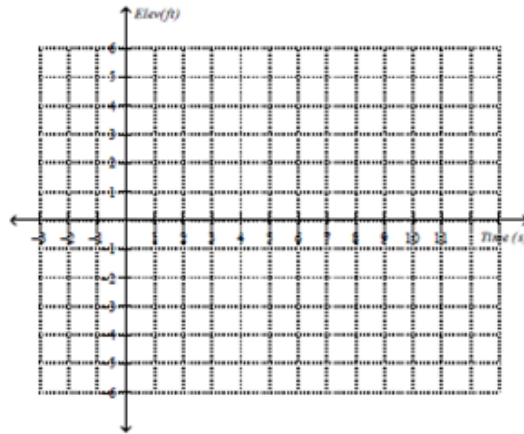


Graph the following situation:

A swimmer climbs a ladder for 2 seconds to a waterslide that is 5 feet high. She sits for 2 seconds at the top of the slide, and then slides 8 feet down the slide into the water in 2 seconds. She stayed steady at the same position underwater for 2 seconds before rising to the surface of the water in 1 second. She remained in the pool for 1 more seconds.



t	D(t)
0	
2	
4	
6	
8	
9	

- Determine the average rate of change for the swimmer going up the ladder.
- During what time interval is the average rate of change negative? Find that average rate of change.
- At what time is the slope zero?
- Determine when the average rate of change is positive. Find those average rates of change.