This is the graph of the altimeter readings of a hot air balloon. Time $t$ is measured in minutes and the altitude $A(t)$ is measured in hundreds of feet.


1. Is the balloon rising or falling at time $t=2$ ? $t=1$ ?
2. When is the balloon rising? falling?
3. Let $V(t)$ denote the ballons upward velocity at time $t$. When is $V$ positive? negative? zero?


Graph of $A(t)$


Graph of $V(t)$

