

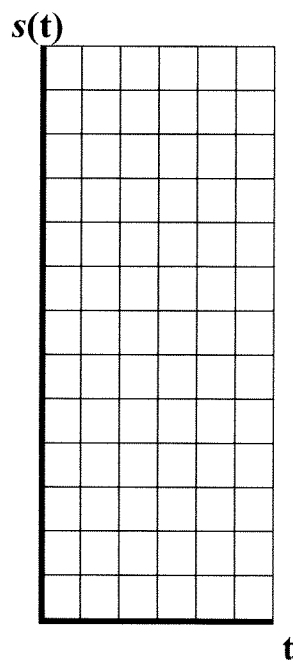
MATH 230 Session #30 Average Rate of Change

Suppose that we have a function s defined by the rule $s(t) = 64t - 16t^2$ for $0 \leq t \leq 4$.

Let's complete the table below to see what the function's graph looks like.

t	0	1	2	3	4
s(t)					

Sketch the graph of s . Draw and label your axes.



Let's look at the average rate of change in $s(t)$ with respect to t over successive intervals.

change in t Δt	t	s(t)	change in s(t) $\Delta s(t)$	average rate of change on [t-1,t] $\Delta s(t)/\Delta t$
	0			
	1			
	2			
	3			
	4			