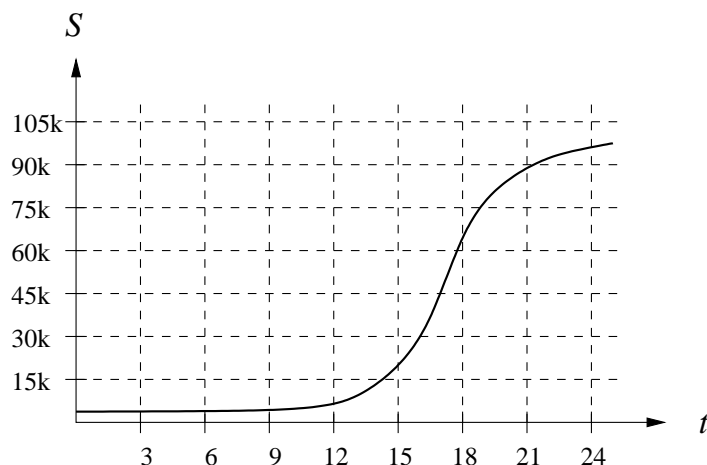


9. (9 points) Suppose that the starting salary, $S(t)$, at U-M for someone in the lucrative mathematics exam-formatting and writing business is given by the following figure. The units of S are given as tens of thousands of dollars, and S is a function of t , the number of years of education attained by the exam-formatter and writer. Suppose that we consider value $V(t)$ of an education to be the starting salary per year spent in school.



- (a) How is $V(t)$ related to $S(t)$?
- (b) How is $V(t)$ represented on the graph of $S(t)$ given?
- (c) For $0 < t \leq 24$ what is the maximum of $V(t)$? According to the graph, how many years of education are the best value as far as starting salary is concerned? Explain.