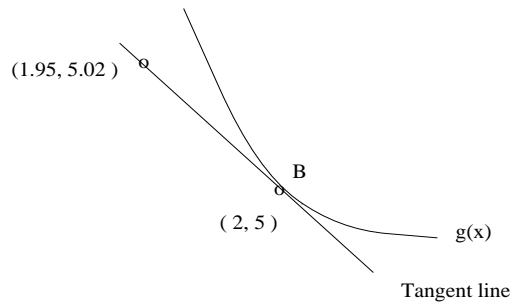


4. Fill in the blanks in the following statements about the function g at the point B .

(a) $g(\underline{\quad}) = \underline{\quad}$

(b) $g'(\underline{\quad}) = \underline{\quad}$



5. A child inflates a balloon, admires it for a while and then lets the air out at a constant rate. If $V(t)$ gives the volume of the balloon at time t in seconds, then the figure below shows $V'(t)$ as a function of t . At what time does the child:

(a) Begin to inflate the balloon?

(b) Finish inflating the balloon?

(c) Begin to let the air out?

(d) What would the graph of $V'(t)$ look like if the child had alternated between pinching and releasing the open end of the balloon, instead of letting the air out at a constant rate?

