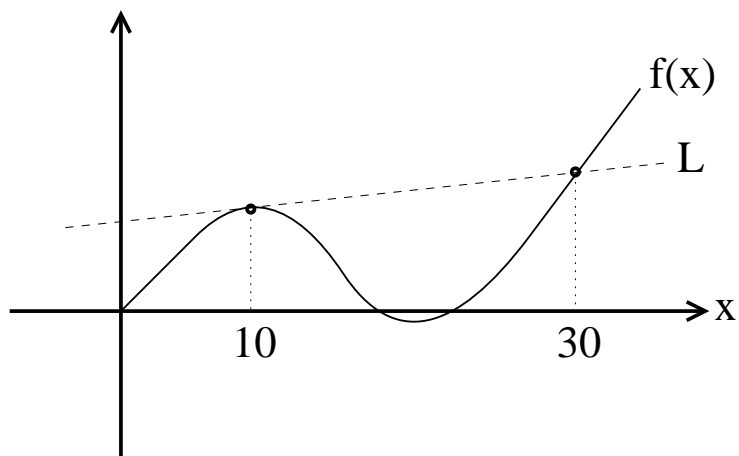


3. (3 pts.) Let  $g(x) = \ln(x^2 + 3)$ . What is the average rate of change in  $g$  over the interval from  $-1$  to  $3$ ?

4. (4 pts.) Shown below is a part of the graph of the function  $f$  together with a part of the graph of the tangent line  $L$  to  $f$  at the point  $x = 10$ . Suppose that  $f(10) = 8$  and  $f'(10) = 0.12$ . Calculate  $f(30)$ .



$f(30) = \underline{\hspace{2cm}}$ .