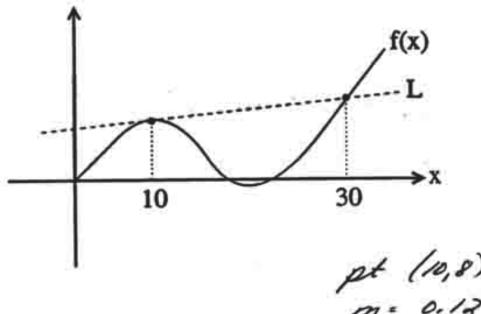
3. (3 pts.) Let $g(x) = \ln(x^2 + 3)$. What is the average rate of change in g over the interval from -1 to 3?

Aug Rete = 3(3)-9(-1) (la(12)-la(4)

g Cha lito = 3-(-1) (la(12)-la(4)

x= 3 + x=-1 = 2 . 27465

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).



m = 0.12 8 = 0.12(10) + 6b = 6.8

f /30) = 0.12(30) + 6.8 = 10.4