Name: ID: SR:

Question1: Find the linearization $L(x)$ of the function $f(x) = \ln(e + \tan x)$ at $a = 0$.

Question2: if $f(x) = \dfrac{1+\tanh(x)}{1-\tanh(x)}$, find $f\,`(\ln(2))$

Question3. The radius of a circle is measured to be $24\ cm$ with a possible error in measurement of 0.2 cm. find the maximum percentage error in the area of the circle.