4) Calcular las derivadas de las siguientes funciones:

a) $f(x) = (33 - 2x)^{4/3} \Rightarrow f'(x) = \frac{4}{3}(33-2x)^{1/3}$

b) $f(x) = e^{2x} \Rightarrow f'(x) = e^{2x} \cdot 2 = 2e^{2x}$

c) $f(x) = 2^x \Rightarrow f'(x) = 2^x \ln(2)$

d) $f(x) = \ln|7-x| \Rightarrow f'(x) = \frac{1}{7-x} \cdot (-1) = \frac{-1}{7-x}$

e) $f(x) = \ln|x^2+3x+4| \Rightarrow f'(x) = \frac{2x+3}{x^2+3x+4}$

f) $f(x) = \ln|e^x + e^{-x}| \Rightarrow f'(x) = \frac{e^x - e^{-x}}{e^x + e^{-x}}$

g) $f(x) = \ln|\cos(x) + \operatorname{sen}(x)| \Rightarrow \frac{\cos(x) - \operatorname{sen}(x)}{\cos(x) + \operatorname{sen}(x)}$

h) $f(x) = \frac{\cos(x)}{\operatorname{sen}(x)} \Rightarrow f'(x) = \frac{-\operatorname{sen}(x)\operatorname{sen}(x) - \cos(x)\cos(x)}{\operatorname{sen}^2(x)} = \frac{-\operatorname{sen}^2(x) - \cos^2(x)}{\operatorname{sen}^2(x)}$

$= -\csc(x)$