$f_{1}(x) = \frac{1}{(1+e^{x})^{-1}}$ f, (x) = -(1+e-x)-2(-e-x) = (1+e-x)-1(1+e-x)-1e-x $= f(x) \left[\frac{e^{+}}{1+e^{+}} \right] = f(x) \left[\frac{1+e^{+}-1}{1+e^{-}} \right]$ $= f(x) \left[\frac{1}{1+e^{+}} \right] = f(x) \left(1-f(x) \right)$ $f_2(x) = \frac{e^x - e^{-x}}{e^x + e^{-x}} = \frac{(e^x - e^{-x})(e^x + e^{-x})^{-1}}{e^x + e^{-x}}$ $f'_{2}(t) = (e^{x} + e^{-t})(e^{x} + e^{x})^{-1} + (e^{x} - e^{-x})(-1)(e^{x} + e^{x})^{-2}(e^{x} + e^{x})$ $-\frac{(e^{x}-e^{x})^{2}}{(e^{x}+e^{x})^{2}}-1-f_{2}^{2}(x)$