

$$f(x/y) = \frac{e^{4x}}{y+1}$$

(010)

$$f_x(x/y) = (e^{4x}) \cdot (y+1)^{-1} = 4e^{4x} \cdot (y+1)^{-1} = \frac{4e^{4x}}{(y+1)}$$

$$f_{xx}(x/y) = (4e^{4x}) \cdot (y+1)^{-1} = (16e^{4x}) \cdot (y+1)^{-1} = \frac{16e^{4x}}{(y+1)}$$

$$f_y(x/y) = (e^{4x}) \cdot (y+1)^{-1} = e^{4x} \cdot -1(y+1)^{-2} \cdot 1 = -\frac{e^{4x}}{(y+1)^2}$$

$$f_{yy}(x/y) = (e^{4x}) \cdot (y+1)^{-2} = e^{4x} \cdot -2(y+1)^{-3} \cdot 1 = -\frac{2e^{4x}}{(y+1)^3}$$

$$f_{xy}(x/y) = (e^{4x}) \cdot (y+1)^{-1} = 4e^{4x} \cdot -1(y+1)^{-2} \cdot 1 = -\frac{4e^{4x}}{(y+1)^2}$$