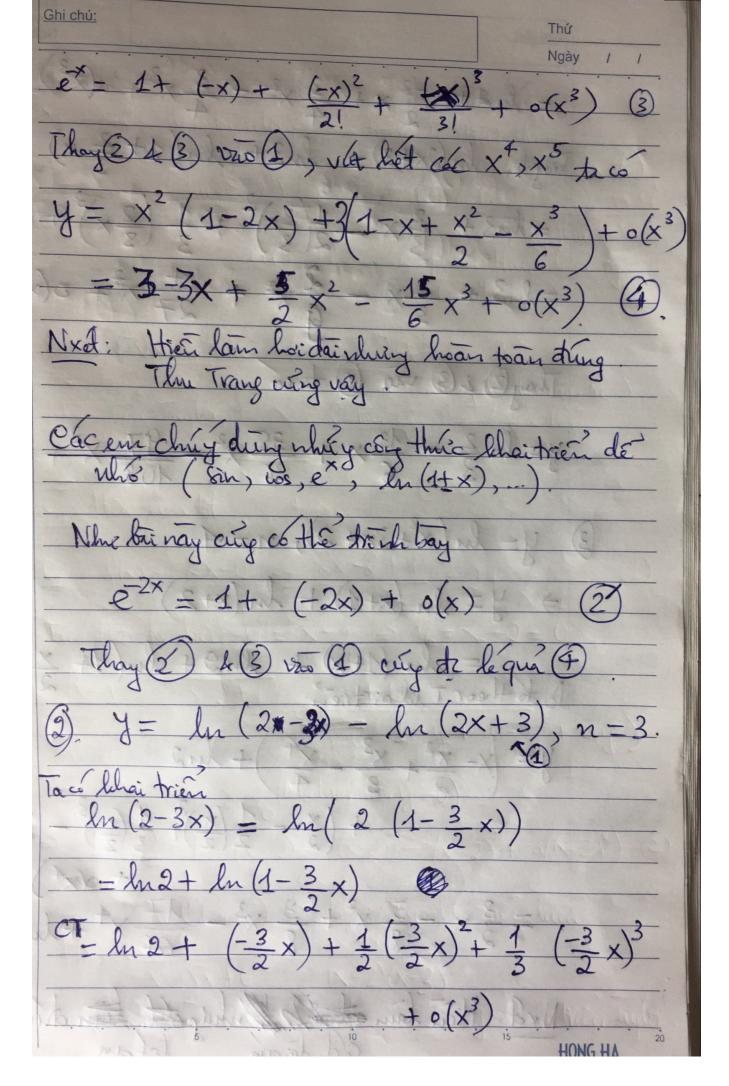


 $= -9 (3x+2)^{-2}$ f"(x) = \$54.(3x+2)-3 Podo f(1)=ln5, f(1)=3, f'(1)=-9 to Anh land va liha de Maclaurin aux e^2x & é  $\frac{-2x}{3} = \frac{1}{1} + \frac{(-2x)^{2}}{1} + \frac{(-2x)^{3}}{31} + \frac{(-2x)^{3}}{1} + \frac{(-2x)^{3}}{31} + \frac{(-2x)^{3}}{1} + \frac{(-$ 



$$= \ln 2 + \frac{3}{2} \times + \frac{3}{4} \times^2 - \frac{3}{4} \times^3 + o(x^3)$$

$$= \ln 3 + \frac{2}{3} \times - \frac{1}{2} \left(\frac{2}{3} \times^2 + \frac{1}{3} \left(\frac{2}{3} \times^3 + o(x^3)\right)$$

$$= \ln 3 + \frac{2}{3} \times - \frac{2}{4} \times^2 + \frac{1}{3} \left(\frac{2}{3} \times^3 + o(x^3)\right)$$

$$= \ln 3 + \frac{2}{3} \times - \frac{2}{4} \times^2 + \frac{4}{27} \times^3 + o(x^3)$$

$$= \ln 3 + \frac{2}{3} \times - \frac{2}{4} \times^2 + \frac{4}{27} \times^3 + o(x^3)$$

$$= \ln 3 + \frac{2}{3} \times - \frac{2}{3} \times^2 + \frac{3}{36} \times^2 - \frac{97}{408} \times^3 + o(x^3)$$

$$= \ln 2 + \frac{1}{3} \times + \frac{35}{36} \times^2 - \frac{97}{408} \times^3 + o(x^3)$$

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