Exercises

Q1: Consider that, we have the following data base

x	0.2	0.4	0.6	0.8	1
y	1.4	1.8	2.2	2.6	3

a. Find a, b , where $y = ax + b,$
b. Use Newton's formulas to find the approximate values of $y(0.25), y(0.7), y(0.5),$
   and $y'(0.9)$.
c. Compute the absolute errors at each point.

Q2:- Consider that, we have the following data base

x	0.25	0.5	0.75	1	1.25
y	1	1.4	1.6	2	2.5

Find the approximate values for $y'(0.5),$ $y''(0.75),$ $y'(0.625)$