

Assignment #12

Exercise #1

let x = the lease time (months)

y = the total cost of the lease (dollars)

a)

x	0	1	2	3	4	5	6	7	8
y	1500	2250	3000	3750	4500	5250	6000	6750	7500

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b) The 1st differences are constant. So the graph of this relationship is linear.

c) $y = 750x + 1500$

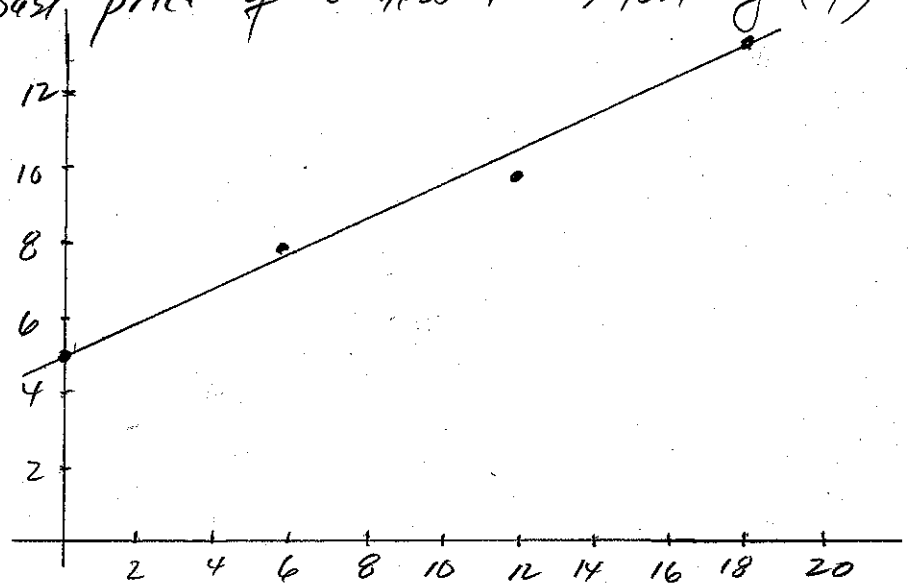
Exercise #2

let x = the number of years since 1975

y = the base price of a new Ford Mustang (\$)

x	y	Base price
0	4906	(\$1060)
6	7960	8339
12	9750	
18	13245	

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Use the 1st and last data points

b) $y \approx 463x + 4906$

\uparrow average annual increase in cost
 \uparrow base price in 1975

Years since 1975

c)

YEAR	1978	1984	1990	1994
ESTIMATED Base price (\$)	6295	9073	11850	13903