Modeling with Linear Functions

Employee Turnover The percentage of employees who cease their employment during a year is referred to as employee turnover, and it is a serious issue for businesses. The following table shows the cost, in millions of dollars, to Walmart for a given employee turnover percentage in a year.¹³

E = employee turnover	10	20	30	40	(13)
$C = \cos t$	250	400	550	700	(mil uso)

How much does it rost of the employee turn over is 50%.

or 60%? or 71% and so on

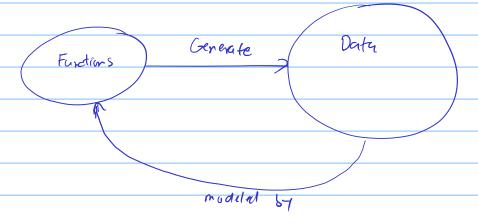
we will use "mathematical modeling" to orswer the question

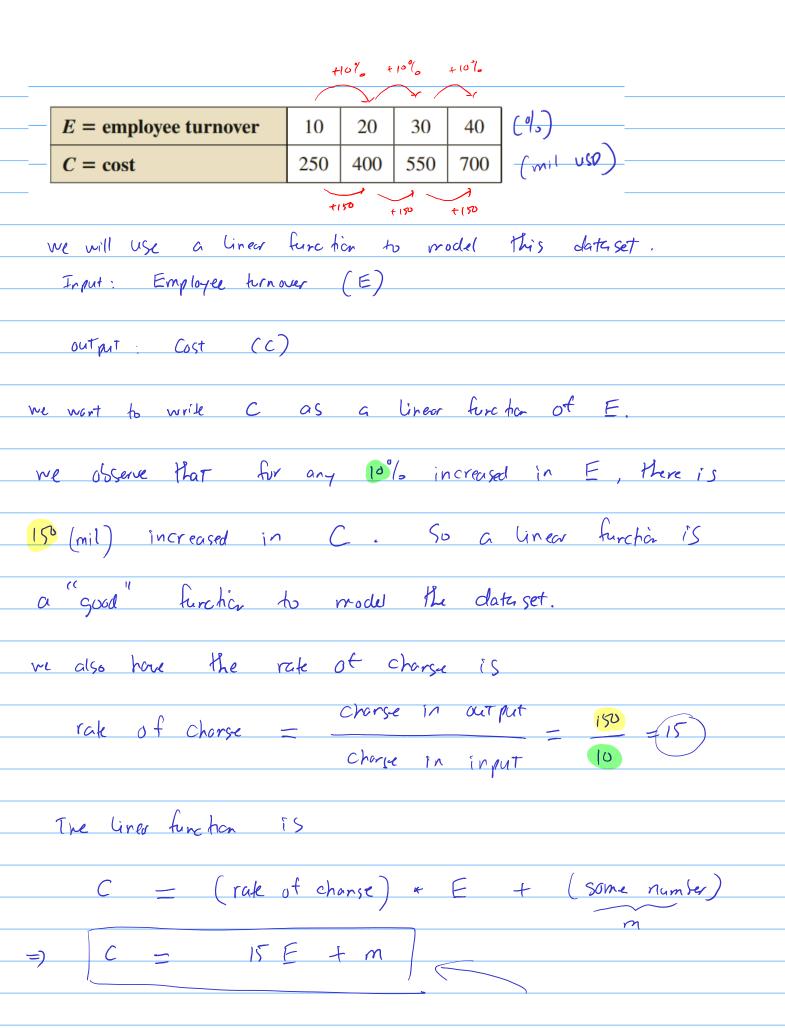
we will "made" this data using a function. This

means that we will find a function that generate

the data or generate a data set that is very close to

the data





we need to find m. To find m, we plus in any pair of values for E and C.

$$E = 10$$
 , $C = 250$

$$=$$
 250 $=$ 15.10 $+$ m

$$=$$
 250 $=$ 150 $+$ m $=$ m $=$ 100

So the lines furchen to model the detaset is

$$C = 15E + 100$$

ASSIGNMENT 3: (Sulmit photos of the answer to convos)

Tuition at American Private Universities The following table shows the average yearly tuition and required fees, in dollars, charged by four-year American private nonprofit universities in the school year ending in the given year.

Date	Average tuition
2012	\$27,870
2013	\$29,004
2014	\$30,138
2015	\$31,272
2016	\$32,406

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2024

- (a) calculate the rate of changes in Average tuition
- (5) With a linear function to model the data
- O Use the linear model to estimate | calculate the triba of