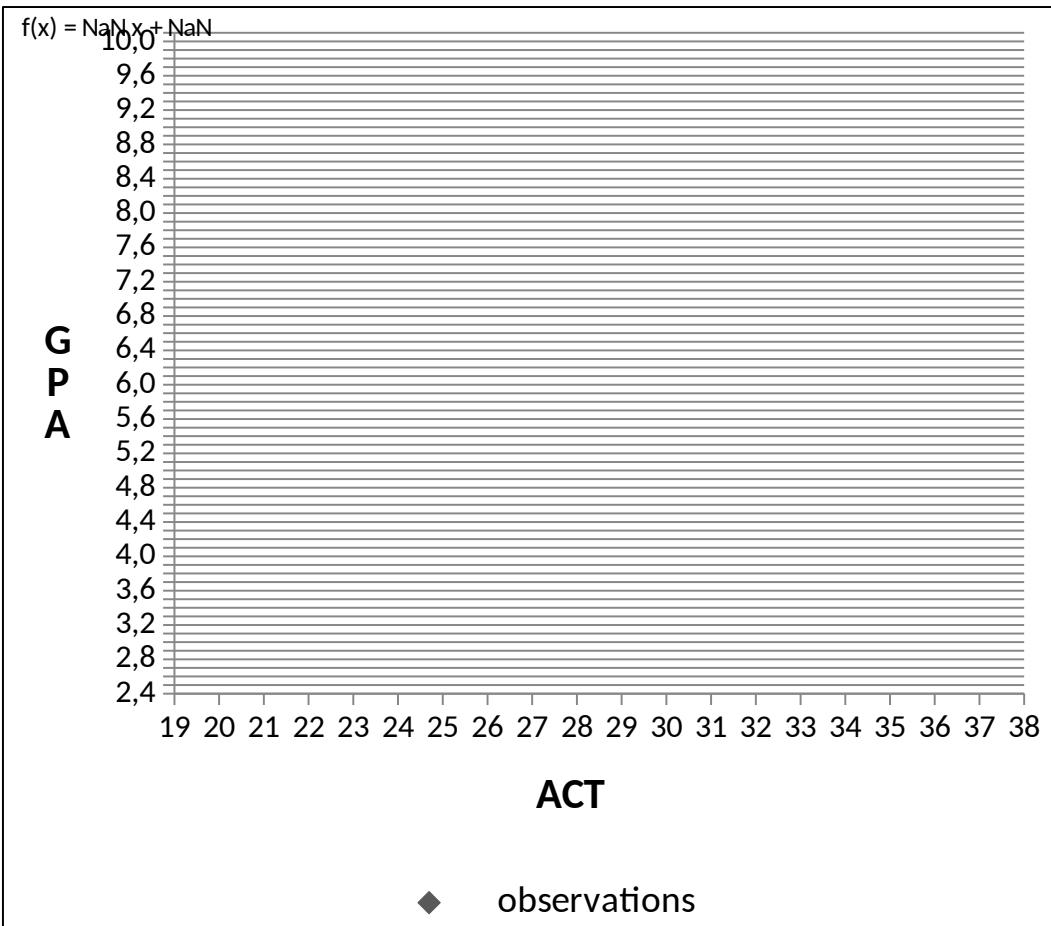


student	GPA (y)	ACT (x)	y-avg(y)	x-avg(x)	(y-avg(y))*(x-avg(x))	(x-avg(x))^2	estimated y	residual
n	sum(y)	sum(x)			sum	sum		
	avg(y)	avg(x)		estimated				
			beta_0					
			beta_1					



student	GPA (y)	ACT (x)	vector y	matrix X	X'

X'X	Hint for Windows: Expand to the size of the matrix & Press F2, the Hint for Mac: Expand to the size of the matrix & press CONTROL+L
(X'X)^(-1)	Hint for Windows: Expand to the size of the matrix & Press F2, the Hint for Mac: Expand to the size of the matrix & press CONTROL+L

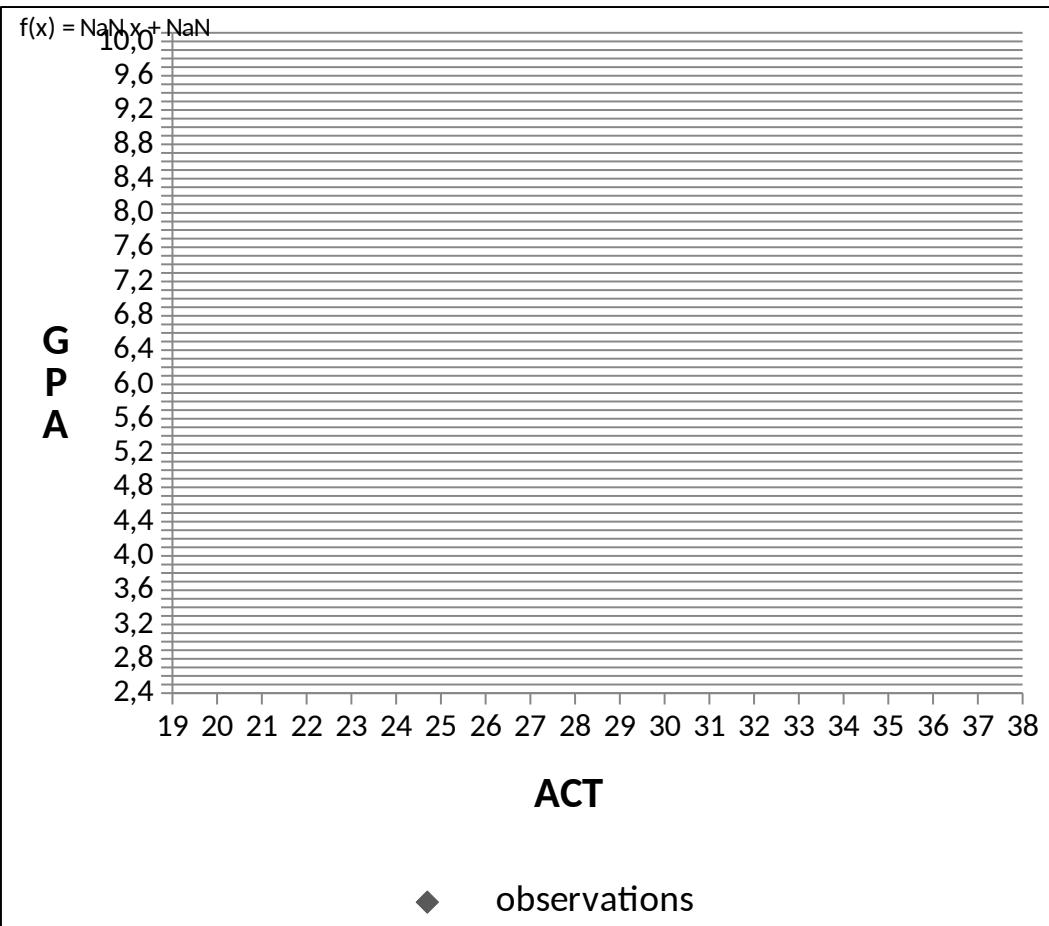
  

X'y	estim.
beta_0	
beta_1	

estimated y	residual

*n Ctrl+Shift+Enter (use "MMULT")  
J, and then press ⌘+RETURN*

*n Ctrl+Shift+Enter (use "MINVERSE")  
J, and then press ⌘+RETURN*



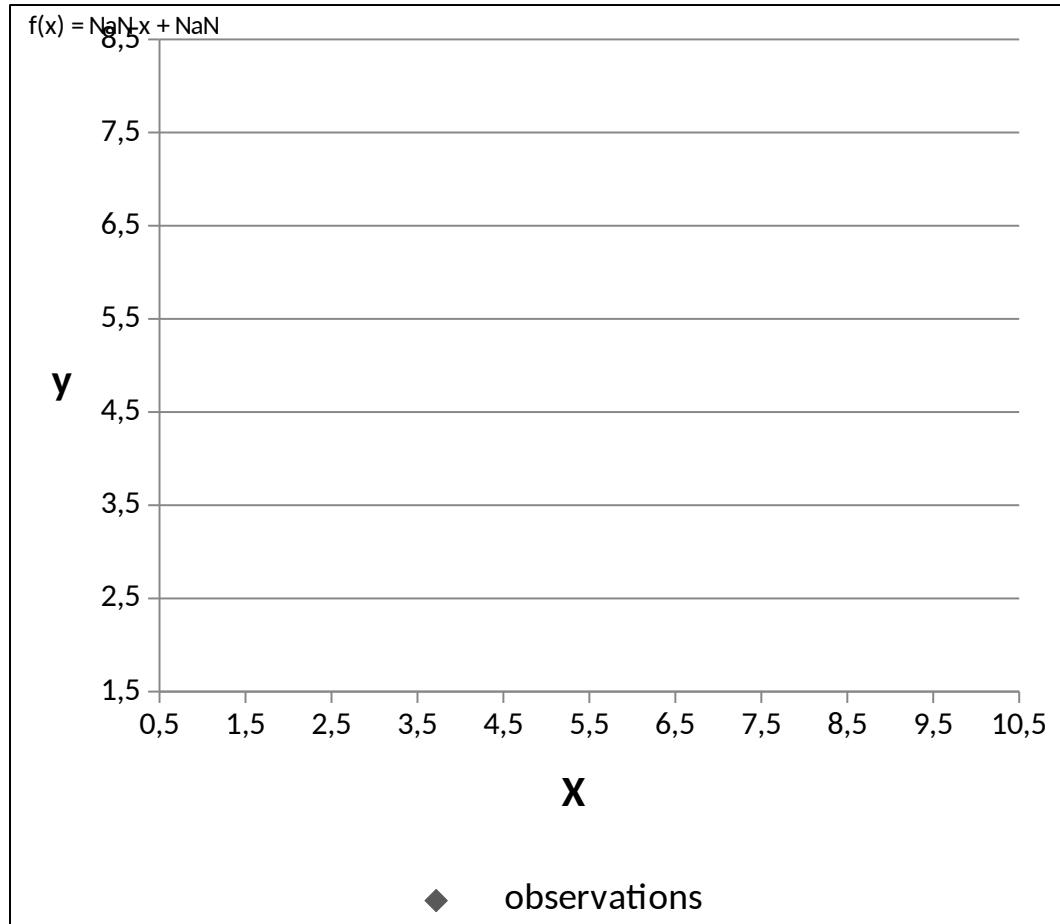
y	x
sum(y)	sum(x)
0	0
avg(y)	avg(x)
0,00	0,00

y-avg(y)	x-avg(x)	(y-avg(y))*(x-avg(x))	(x-avg(x))^2

estimated y	true model y
residual	disturbance

	sum	sum
	0,00	0,00

	estimated	true
beta_0		0
beta_1		1,5



y	x
2	1
6	4
3	2
8	5
5	3
4	4

vector y

matrix X	

X'					

X'X

(X'X) <sup>(-1)</sup>

estimated y	true model y

X'y

	estim.	true
beta_0		0
beta_1		1,5

residual	disturbance

