

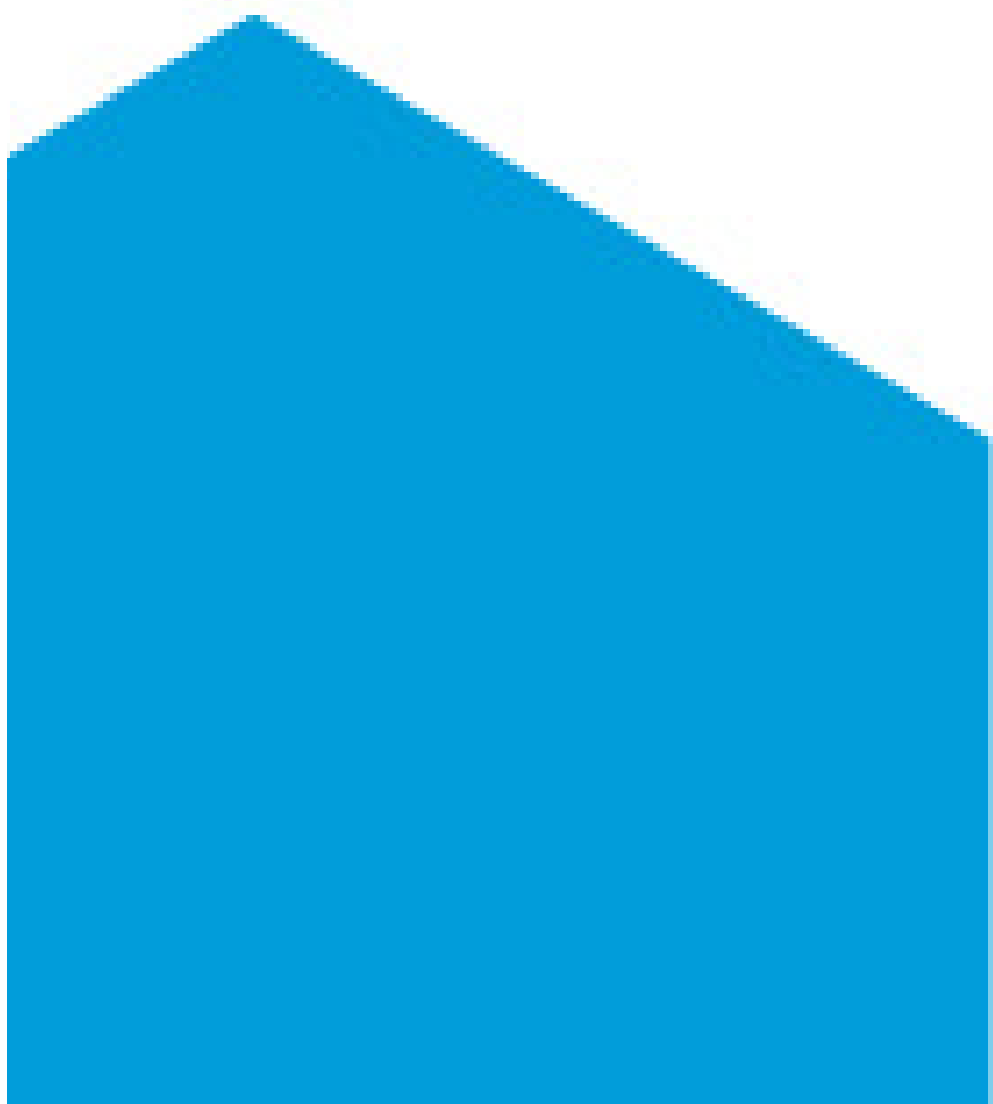


**institut obert
de catalunya**

Estadística unidimensional amb Geogebra

Què aprendràs:

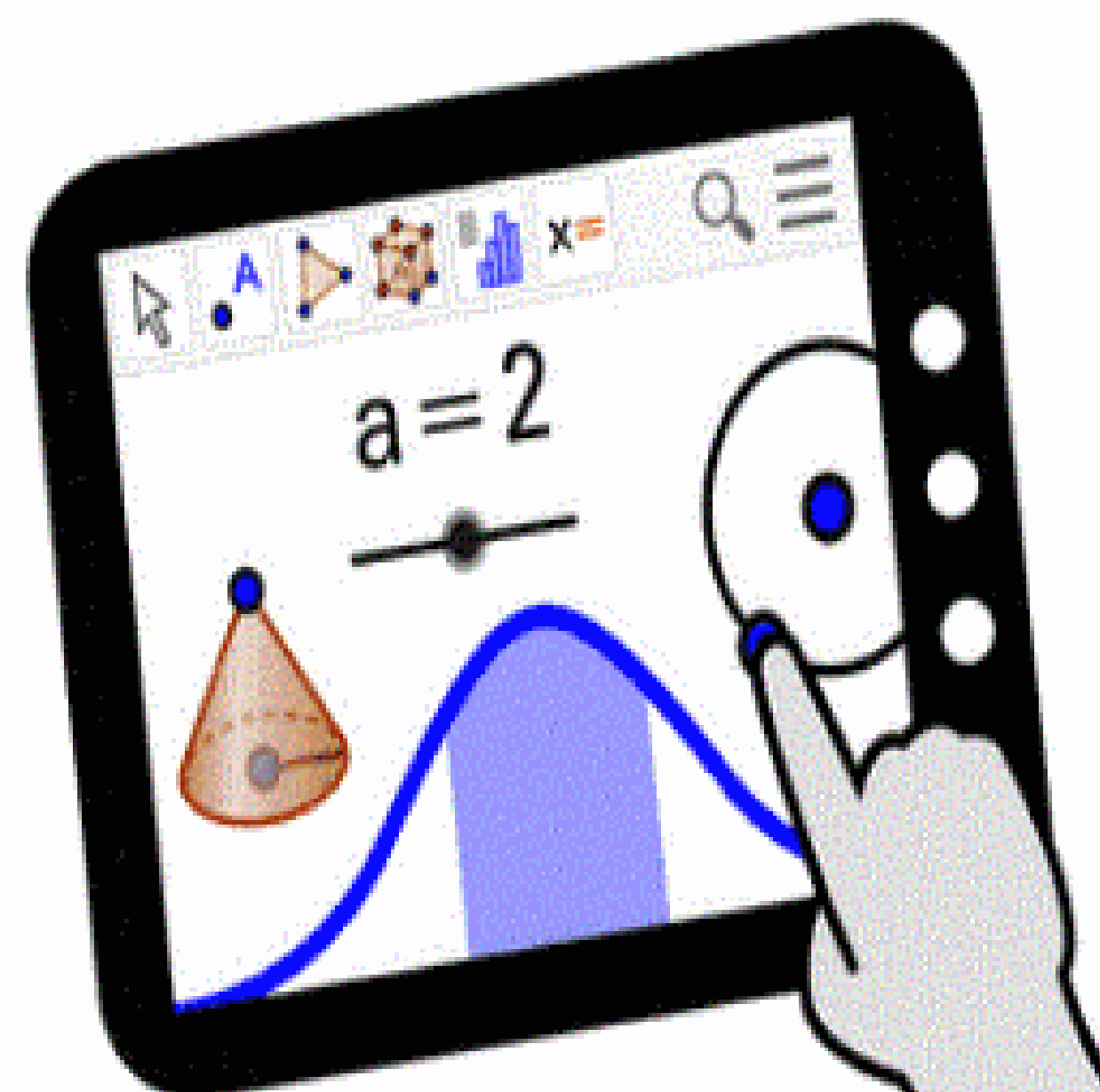
- A treballar amb geogebra les variables unidimensionals



Matemàtiques dinàmiques per a l'ensenyament i l'aprenentatge



Cerqueu materials

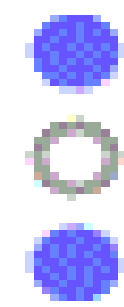


Comenceu a crear

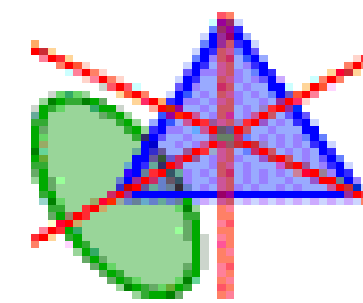


Baixeu-lo ara

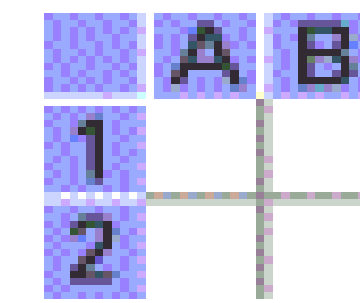
Fes la teva pròpia cració



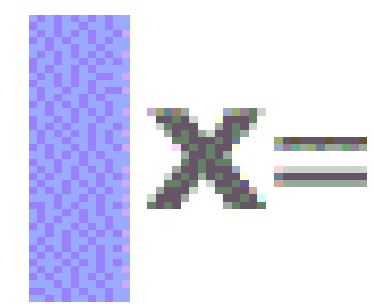
Finestra
algebraica i
gràfics



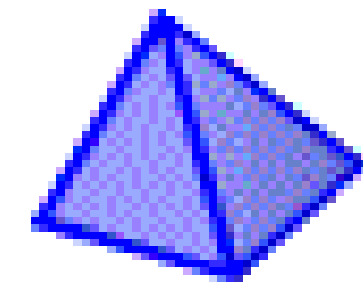
Geometria



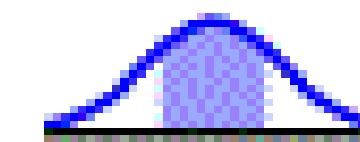
Full de càlcul i
gràfics



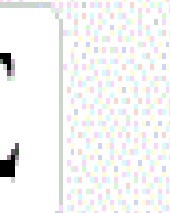
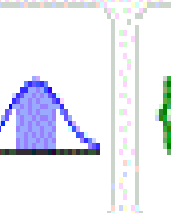
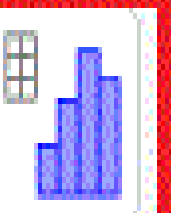
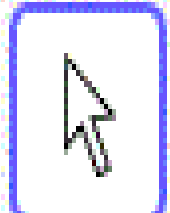
CAS i gràfics

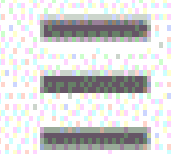
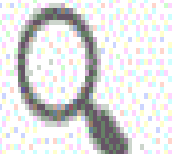
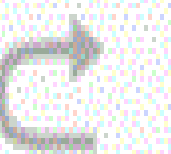
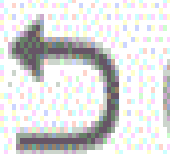


Gràfics 3D i
finestra
algebraica



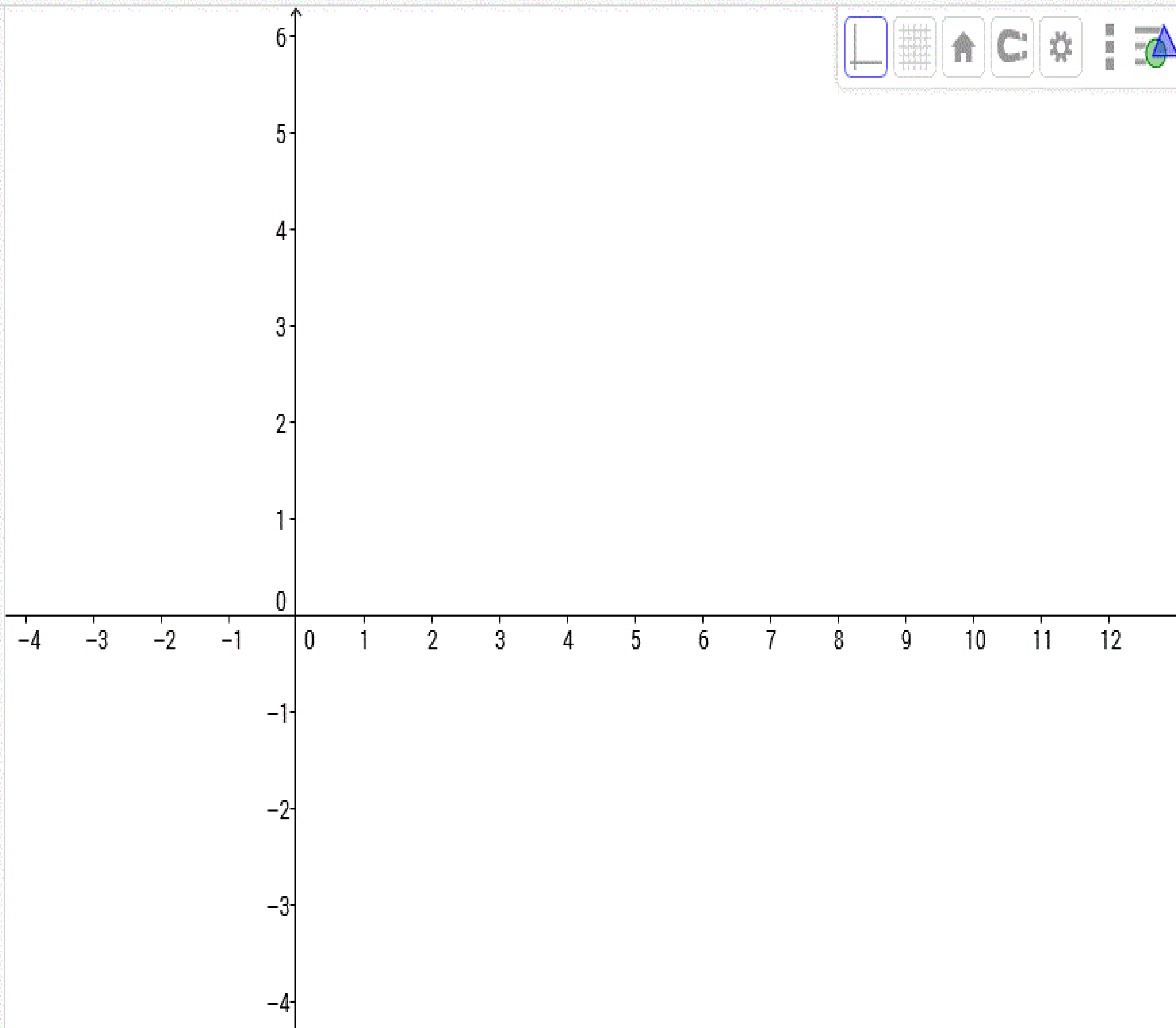
Probabilitat

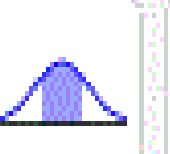
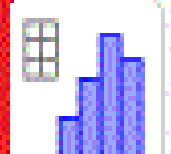




	A	B	C	D	E	F	G	H	I
1									
2									
3	1								
4	2								
5	2								
6	2								
7	3								
8	4								
9	4								
10	4								
11	4								
12	10								
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20									
21									

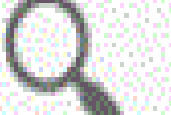
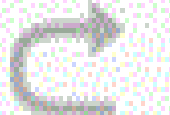
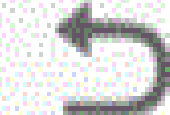
Introduir les dades





{1,2}

Σ



Anàlisi d'una variable

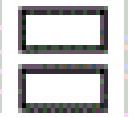
	A	F	G
1			
2			
3	1		
4	2		
5	2		
6	2		
7	3		
8	4		
9	4		
10	4		
11	4		
12	10		
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26			
27			

(-4.3, 6

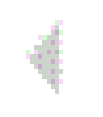
Diagrama de barres

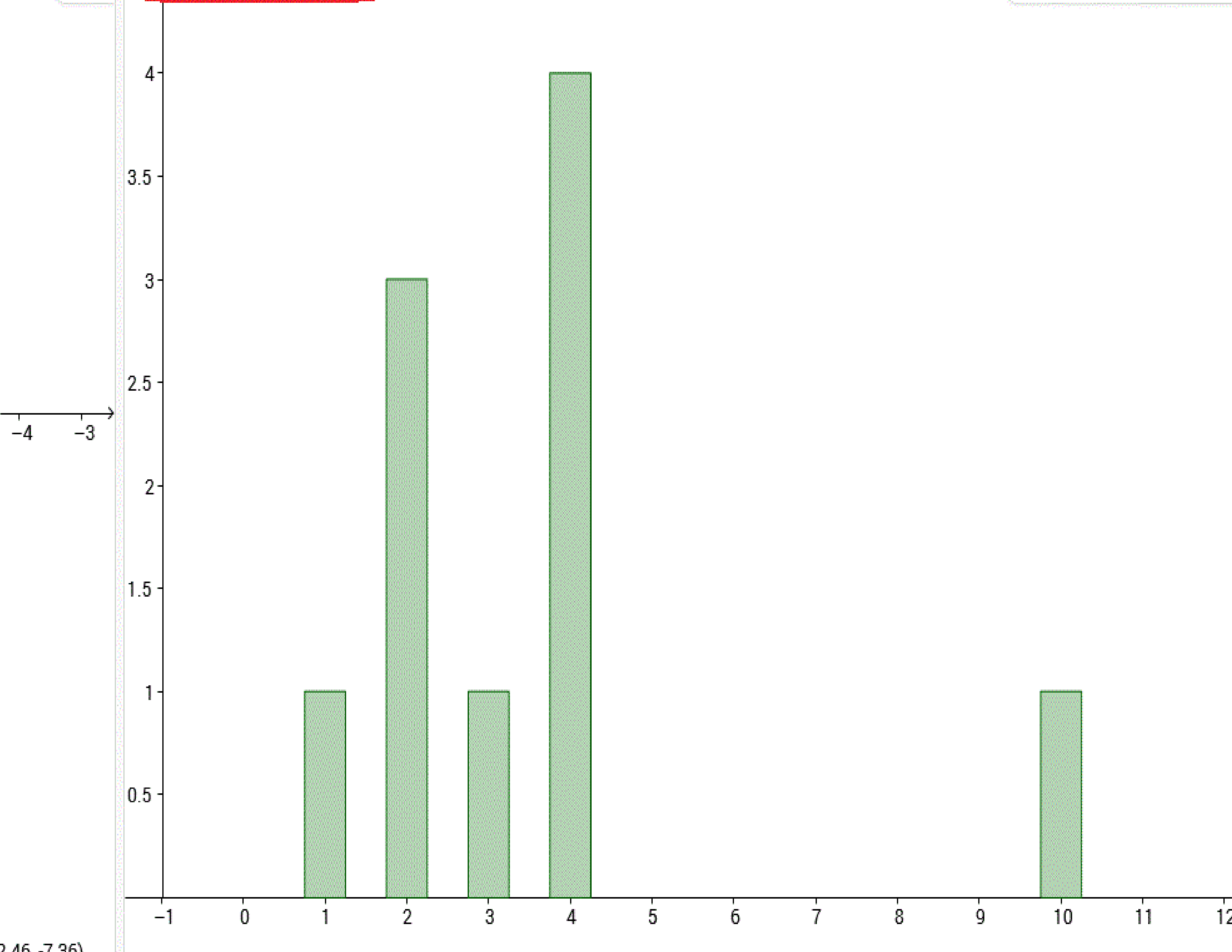
Σx

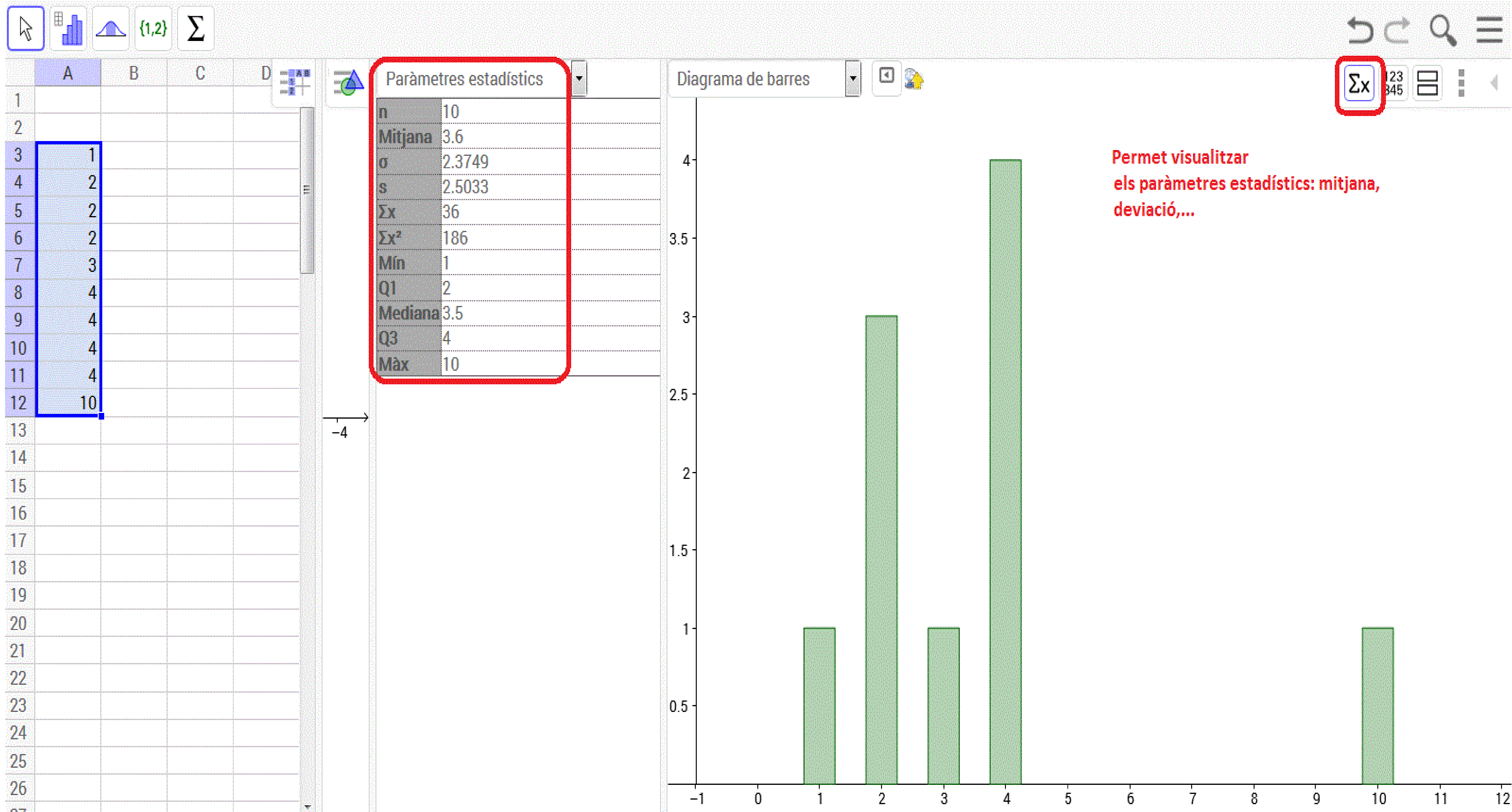
123
345

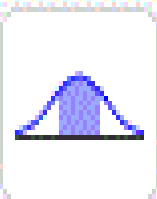
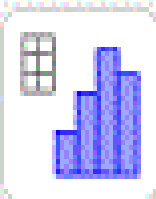
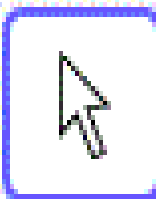






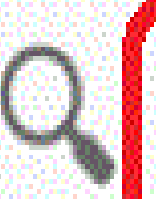
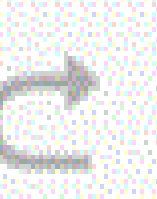
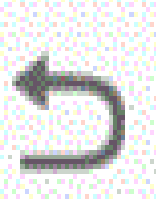






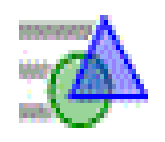
{1,2}

Σ



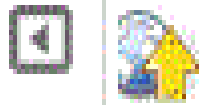


	A	B	C	D
1				
2				
3	1			
4	2			
5	2			
6	2			
7	3			
8	4			
9	4			
10	4			
11	4			
12	10			
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27				



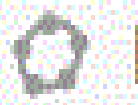
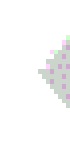
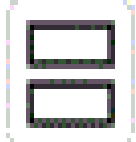
Paràmetres estadístics	
n	10
Mitjana	3.6
σ	2.3749
s	2.5033
Σx	36
Σx^2	186
Mfn	1
Q1	2
Mediana	3.5
Q3	4
Màx	10

Diagrama de barres

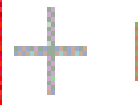


Σx

123
345



Fitxer



Nou



Obre



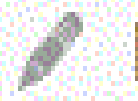
Guarda



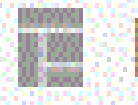
Comparteix



Exporta



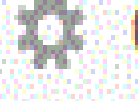
Edita



Escenaris



Visualitza



Opcions



Eines

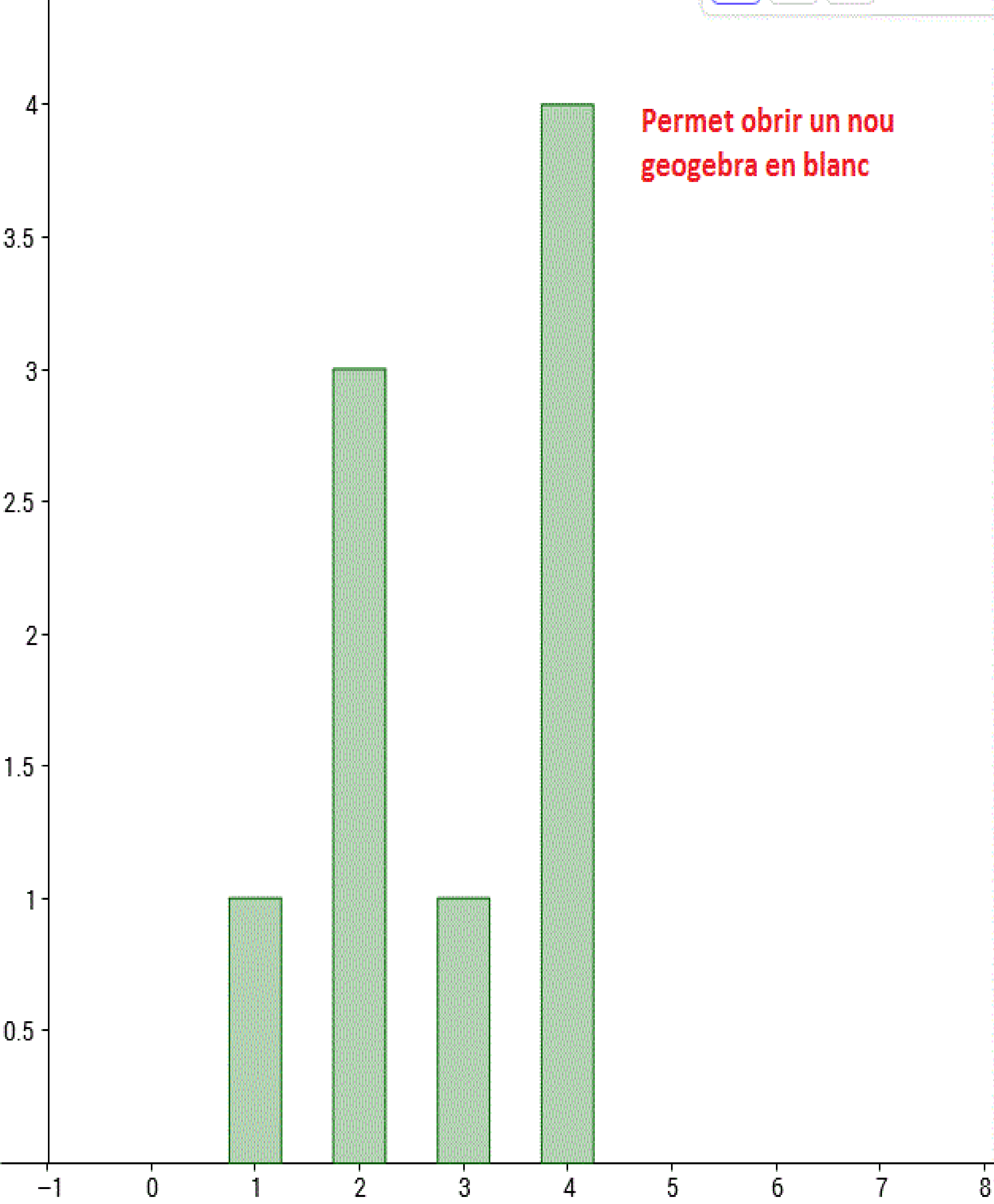


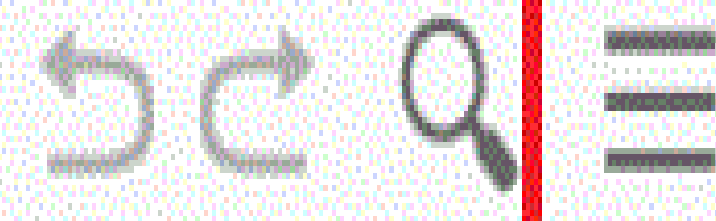
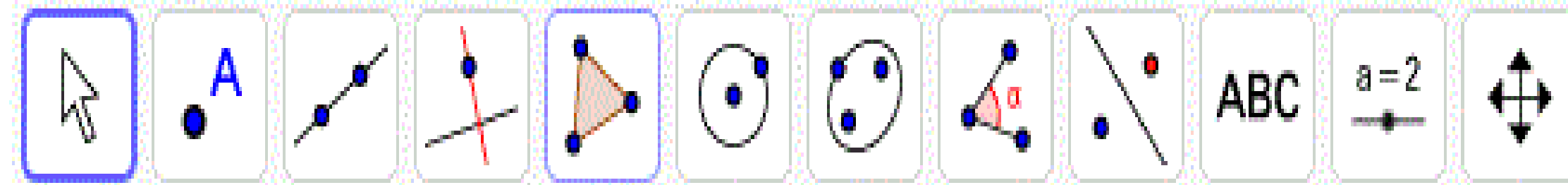
Ajuda



Esther

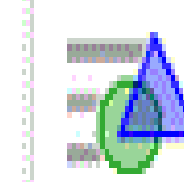
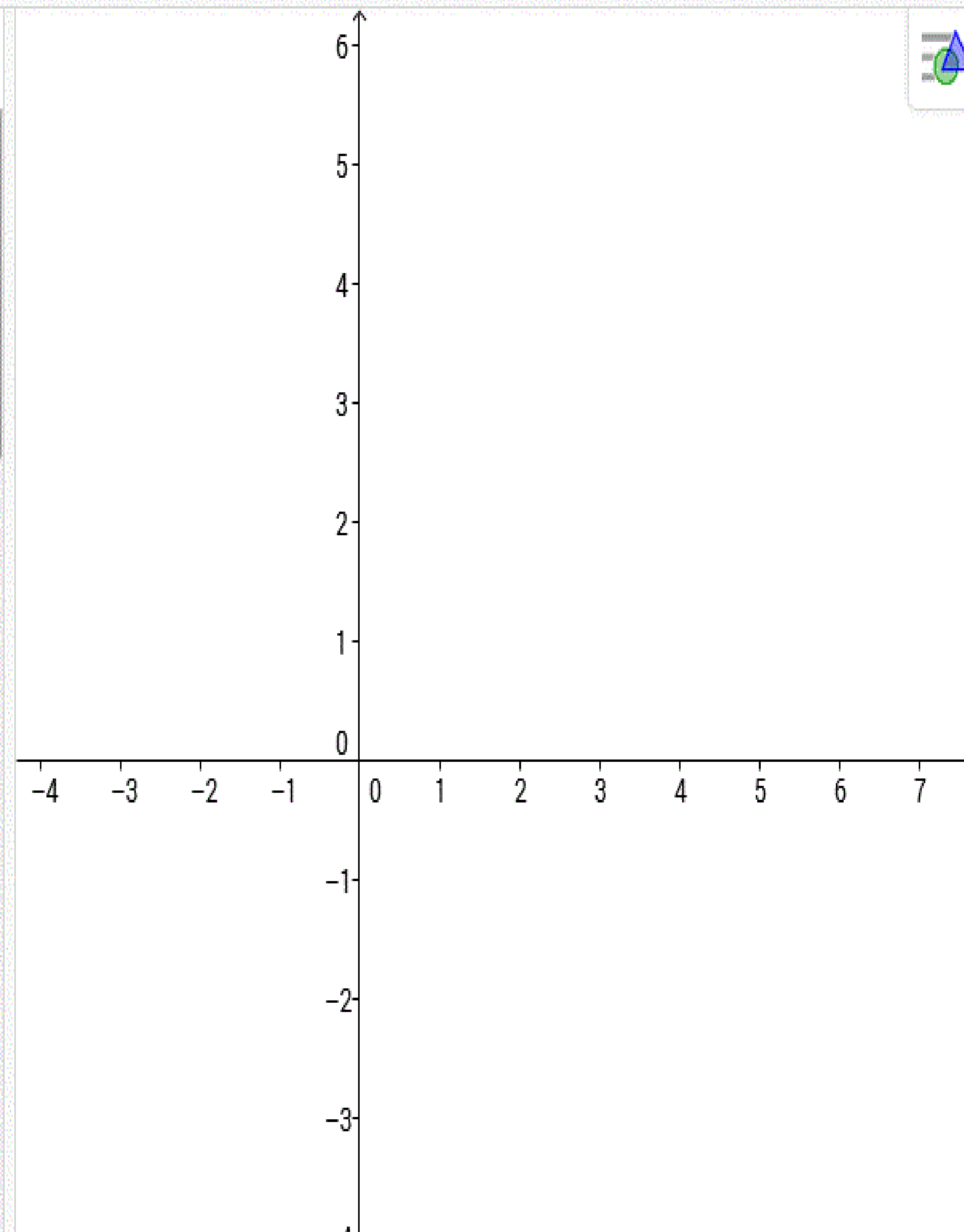
Permet obrir un nou
geogebra en blanc





	A	B	C	D	E	F	G	H	I
1									
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14									
15									
16									
17									
18									
19									
20									

Nou geogebra.



Fitxer

+ Nou

Obre

Guarda

Comparteix

Exporta

Edita

Escenaris

Visualitza

Opcions

Eines

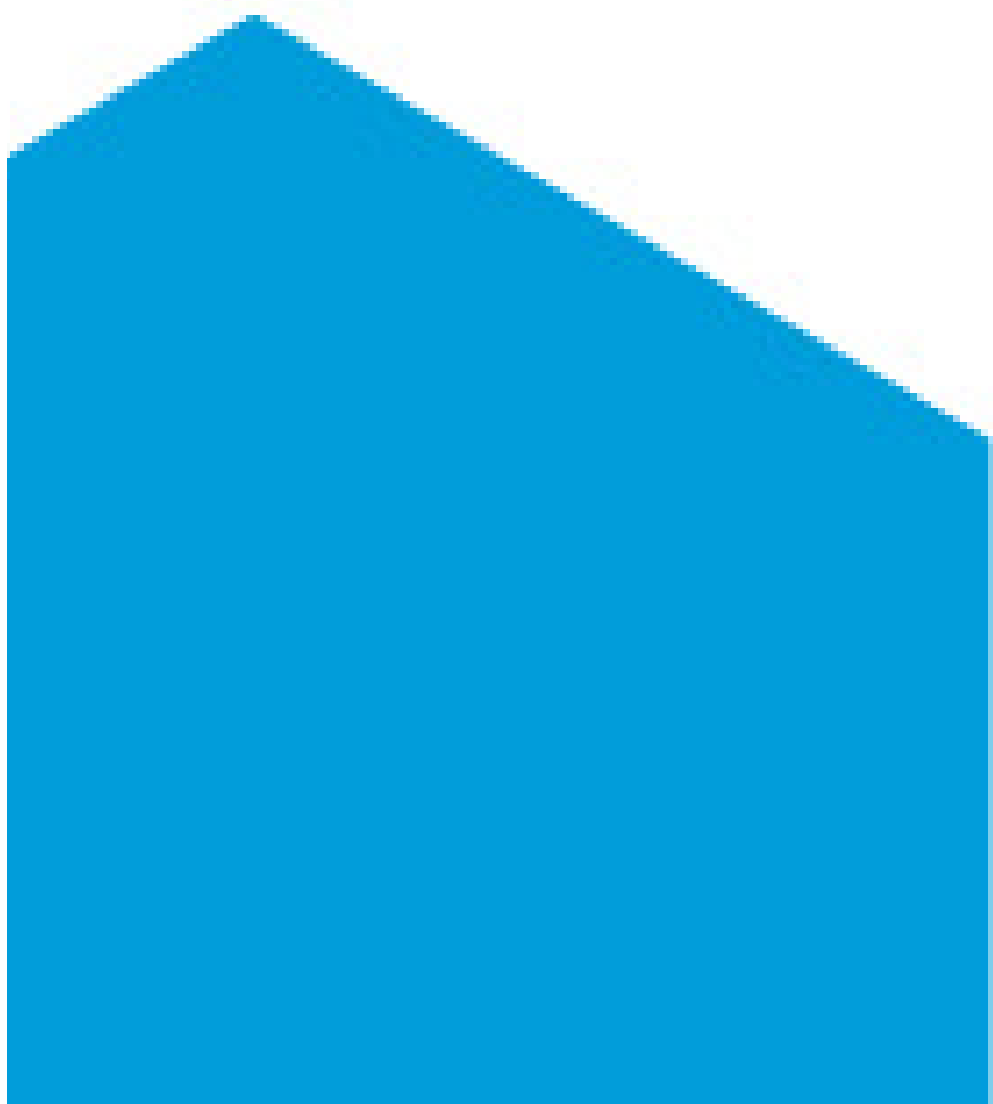
Ajuda

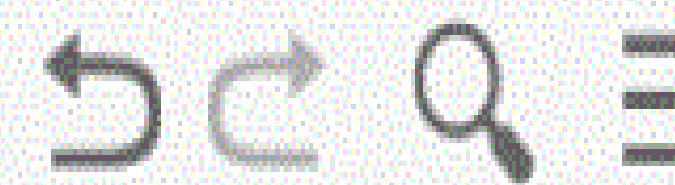
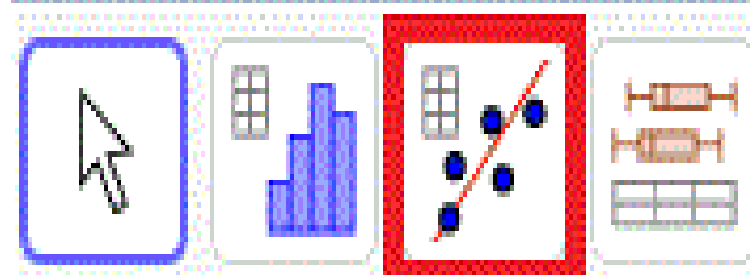
Esther

Estadística bidimensional amb Geogebra

Què aprendràs:

- A treballar amb geogebra les variables bidimensionals





	A	B	C	D	E	F	G
1	x	y					
2	1	2					
3	2	4					
4	3	5					
5	4	8					
6							
7							
8							
9							
10							
11							
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16							
17							
18							
19							
20							
21							
22							

Variable bidimensional

Introduir les dades

s'obté el diagrama de dispersió

(-4.3, 6)

Diagrama de dispersió

Y: B1:B5

-4 -3

X: A1:A5

Model de regressió

Σx

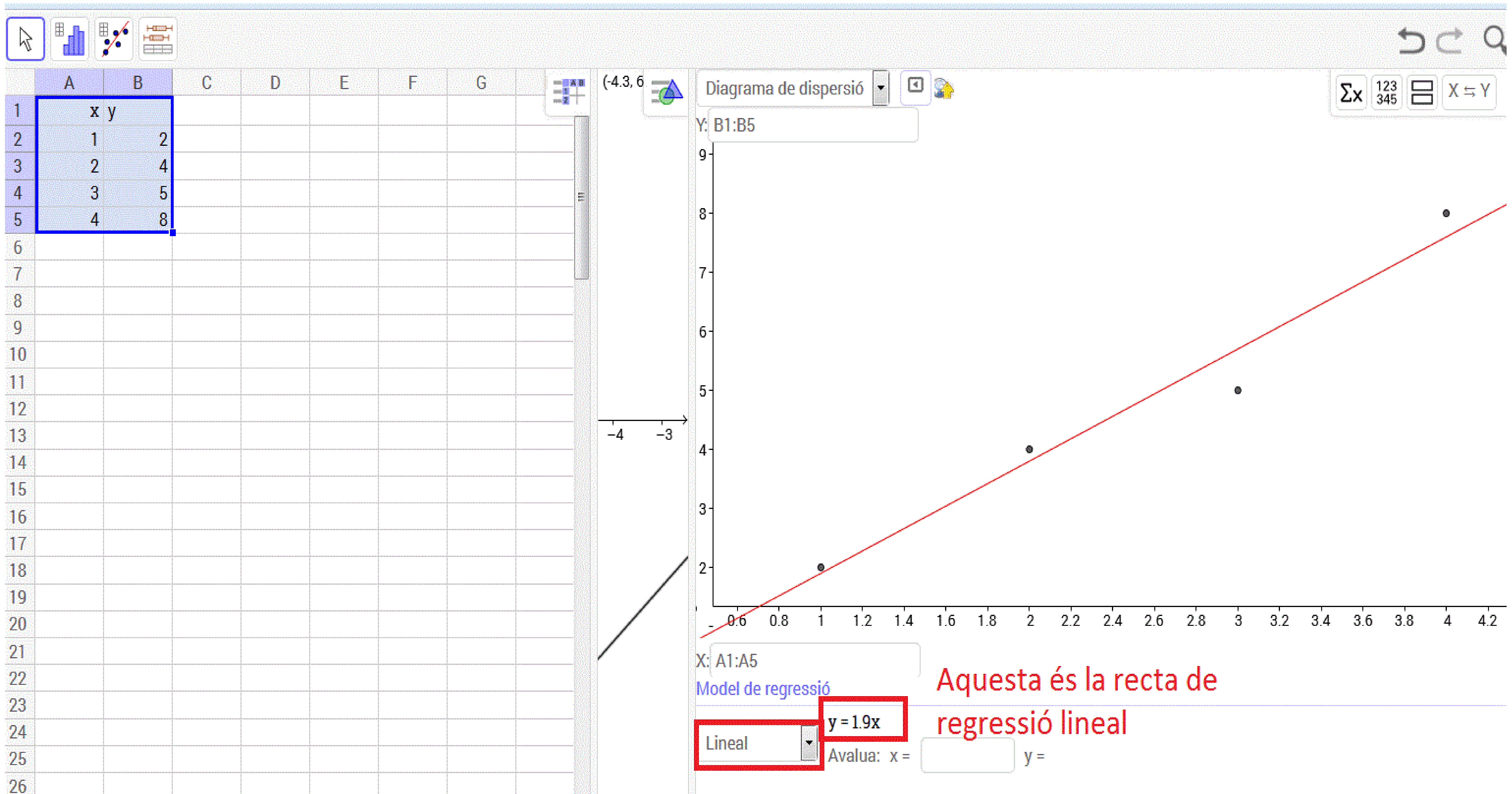
123
345

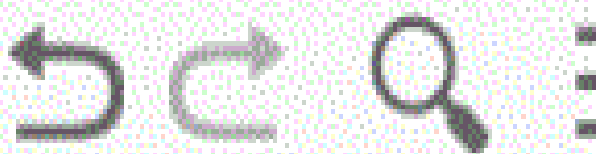
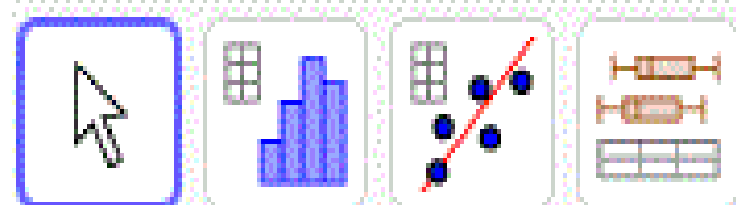
$X \leq Y$

$X \leq Y$

$X \leq Y$

$X \leq Y$





	A	B	C	D	E	F	G
1	x	y					
2	1	2					
3	2	4					
4	3	5					
5	4	8					
6							
7							
8							
9							
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18							
19							
20							
21							
22							
23							
24							
25							
26							
27							

(-4.3, 6)

Paràmetres estadístics	
MitjanaX	2.5
MitjanaY	4.75
Sx	1.291
Sy	2.5
r	0.9812
ρ	1
Sxx	5
Syy	18.75
Sxy	9.5
R²	0.9627
ES0	0.7

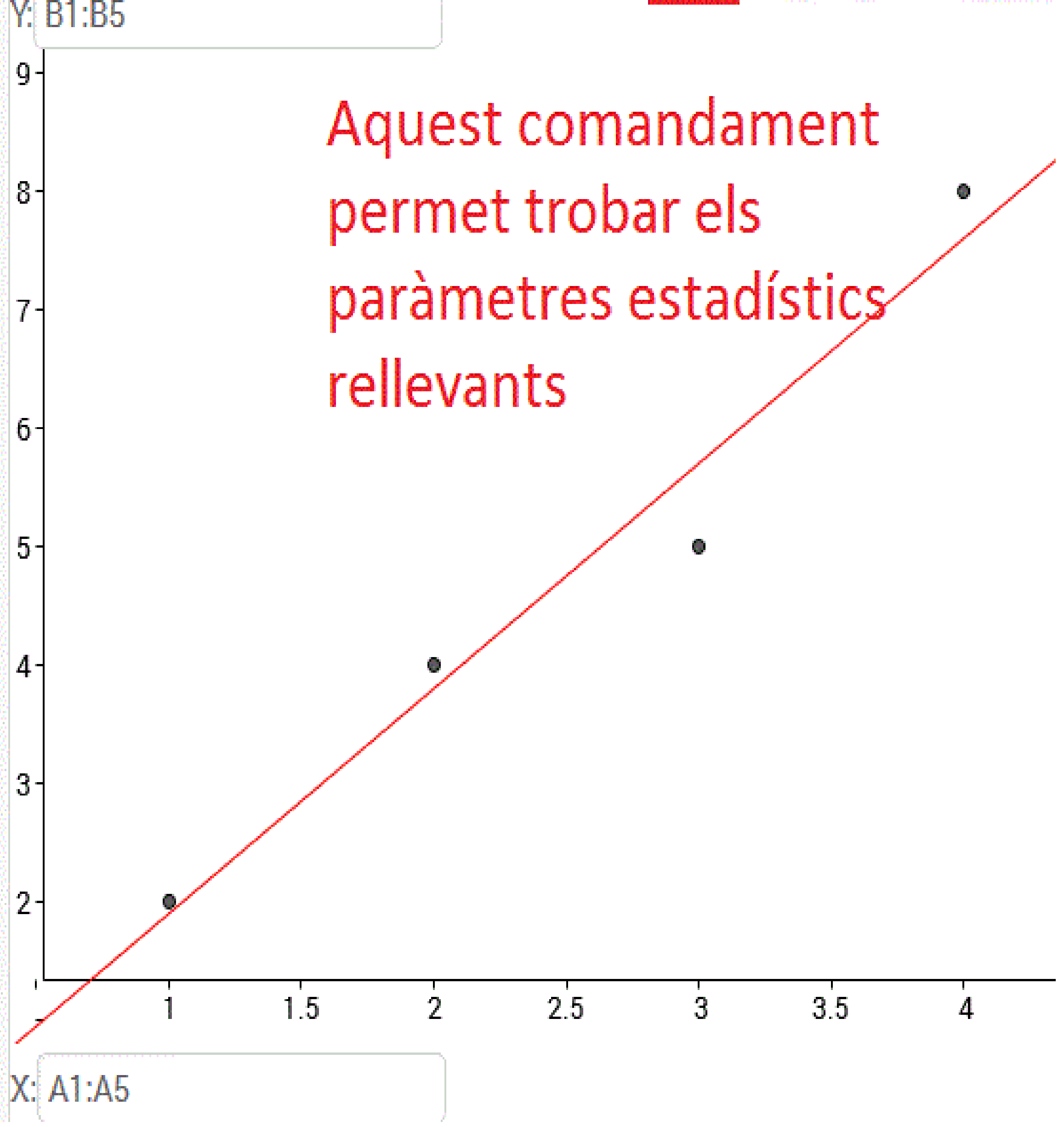
Diagrama de dispersió

Y: B1:B5

Σx 123 345

X $\Leftarrow$ Y

Aquest comandament permet trobar els paràmetres estadístics rellevants



Model de regressió

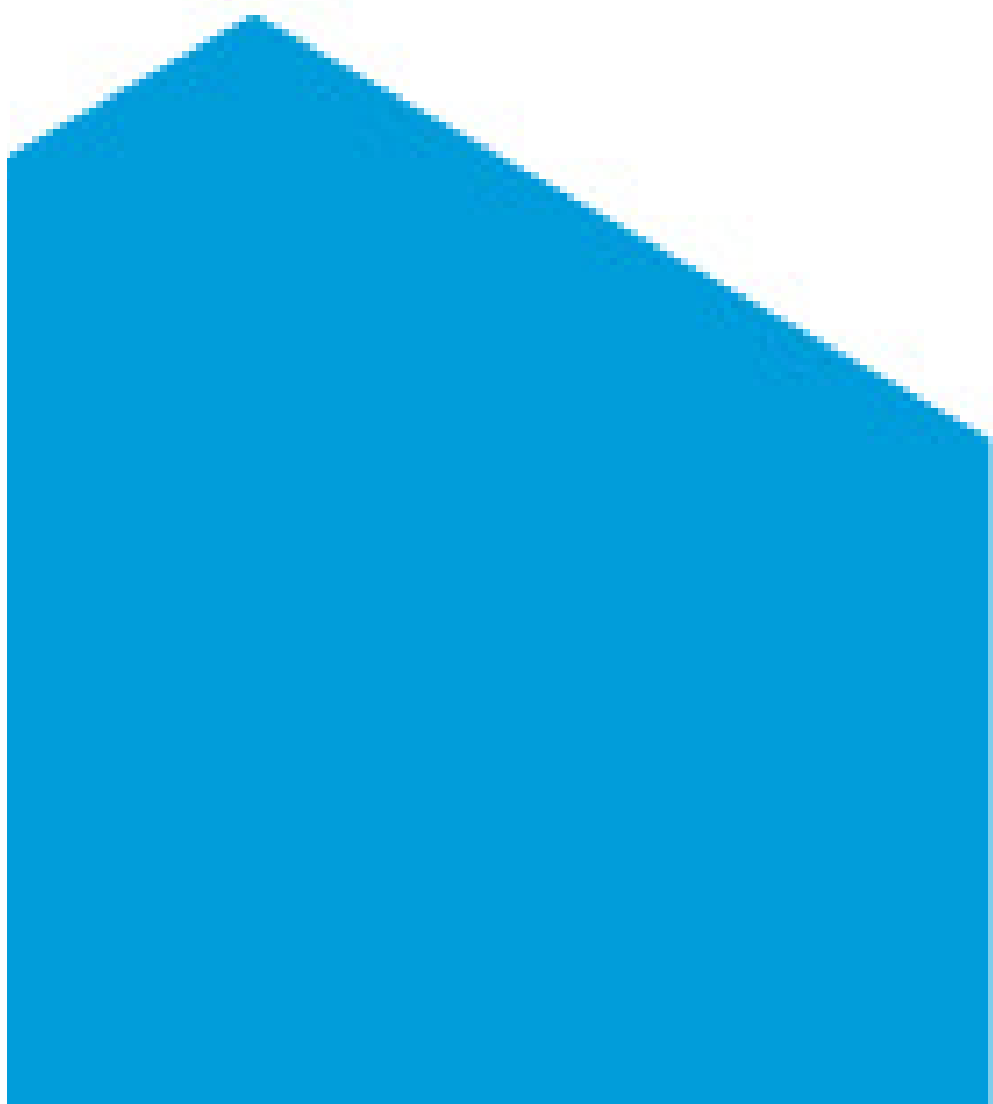
Lineal

y = 1.9x

Avalua: x = y =

Hem vist:

- ✓ Variables estadístiques unidimensionals amb Geogebra
- ✓ Variables estadístiques bidimensionals amb Geogebra



Autora:

Esther Cazcarra

