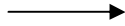


ESTATÍSTICA – 10º ANO

Resolução através da Calculadora gráfica Casio FX da Actividade 7

2) Centro de gravidade $(\bar{x}_i, \bar{y}_i) \rightarrow (38,0(2); 144(5))$



List 1	List 2	List 3	List 4
1	37	50	
2	37.3	148	
3	37.5	145	
4	37.8	148	
5	38	155	

List 1	List 2	List 3	List 4
1	37	50	
2	37.3	148	
4	Set	45	
3	REG	48	
2	2VAR	55	
1	1VAR		37

```
2-Variável
x̄ = 38.0222222
Σx = 342.2
Σx² = 13014.72
x̄σn = 0.62499382
x̄σn-1 = 0.66290606
n = 9
```

```
2-Variável
ȳ = 144.555555
Σy = 1301
Σy² = 198651
ȳσn = 34.2932164
ȳσn-1 = 36.3734488
Σxy = 49609.1
```

```
2-Variável
ȳσn-1 = 36.3734488
Σxy = 49609.1
minX = 37
maxX = 38.8
minY = 50
maxY = 168
```

3) Correlação positiva ($r \approx 0,74$)

List 1	List 2	List 3	List 4
1	37	↑6:Log	
2	37.3	5:Quart	
4	Set	4:Cubic	
3	REG	3:Quad	
2	2VAR	2:MedMed	
1	1VAR	1:Linear	7

```
Regressão Linear
a = 40.4456384
b = -1393.2774
r = 0.73712171
r² = 0.54334841
MSe = 690.47169
y = ax + b
```

4) Recta de regressão, nuvem de pontos e centro de gravidade

List 1	List 2	List 3	List 4
1	37	50	
5	Set	48	
4	Select	45	
3	S-Gph3	48	
2	S-Gph2	55	
1	S-Gph1		37

List 1	List 2	List 3	List 4
1	37	50	
2	37.3	148	
4	Set	45	
3	REG	48	
2	2VAR	55	
1	1VAR		37

List 1	List 2	List 3	List 4
1	37	50	
5	Set	48	
4	Select	45	
3	S-Gph3	48	
2	S-Gph2	55	
1	S-Gph1		37

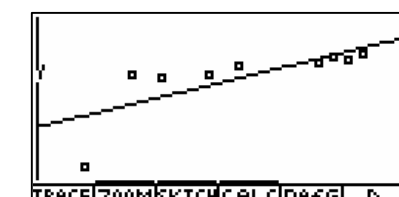
```
StatGraph1
Graph Type : Scatter
XList : List1
YList : List2
Frequency : 1
Mark Type : □
```



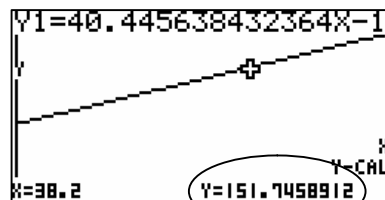
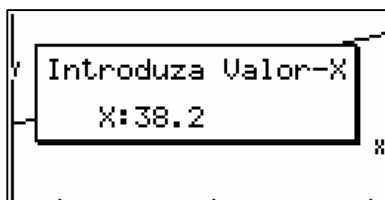
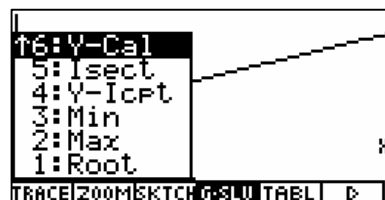
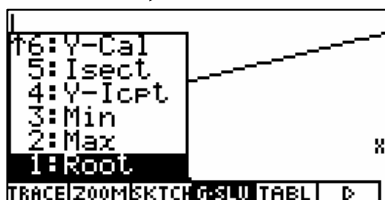
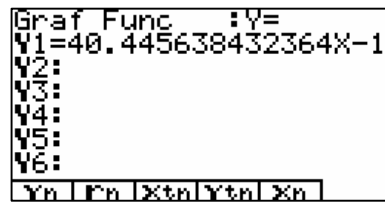
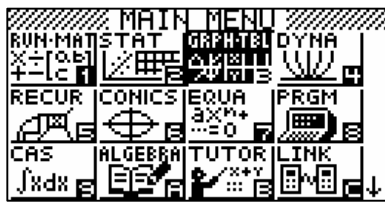
```
↑6:Quart
5:Cubic
4:Quad
3:MedMed
2:Linear
1:2VAR
```

```
Regressão Linear
a = 40.4456384
b = -1393.2774
r = 0.73712171
r² = 0.54334841
MSe = 690.47169
y = ax + b
```

```
Gráfico Função
Y1 = 40.4456384x - 1393.2774
Y2:
Y3:
Y4:
Y5:
Y6:
```



5.1.)



5.2.)

