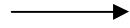


ESTATÍSTICA – 10º ANO

Resolução através da Calculadora gráfica TEXAS TI 83/84 da Actividade 7

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



```

2001 CALC TESTS
1:Edit...
2:SortA(
3:SortD(
4:ClrList
5:SetUpEditor
    
```

L1	L2	L3	2
37.8	148		
38	155		
38.5	160		
38.6	165		
38.7	162		
38.8	168		

L2(10) =			

```

EDIT 0000 TESTS
1:1-Var Stats
2:2-Var Stats
3:Med-Med
4:LinReg(ax+b)
5:QuadReg
6:CubicReg
7:QuartReg
    
```

```

2-Var Stats L1,L
2
    
```

```

2-Var Stats
x=38.02222222
Σx=342.2
Σx²=13014.72
Sx=.66290606
σx=.6249938271
↓n=9
    
```

```

2-Var Stats
↑n=9
y=144.5555556
Σy=1301
Σy²=198651
Sy=36.3734488
↓σy=34.2932164
    
```

```

2-Var Stats
↑r=34.2932164
Σxy=49609.1
minX=37
maxX=38.8
minY=50
maxY=168
    
```

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

```

CATALOG
Degree
DelVar
DependAsk
DependAuto
det(
DiagnosticOff
DiagnosticOn
    
```

```

Σx=342.2
Σx²=13014.72
Sx=.66290606
σx=.6249938271
↓n=9
DiagnosticOn Done
    
```

```

EDIT 0000 TESTS
1:1-Var Stats
2:2-Var Stats
3:Med-Med
4:LinReg(ax+b)
5:QuadReg
6:CubicReg
7:QuartReg
    
```

```

LinReg(ax+b) L1,
L2,Y1
    
```

```

LinReg
y=ax+b
a=40.44563843
b=-1393.277497
r²=.543348417
r=.737121711
    
```

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

```

STAT PLOTS
1:Plot1...On
L1 L2
2:Plot2...Off
L2 1
3:Plot3...Off
L1 L4
4:PlotsOff
    
```

```

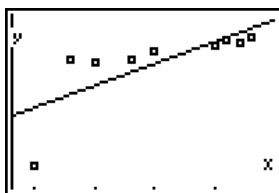
2001 Plot2 Plot3
Off
Type:
Xlist:L1
Ylist:L2
Mark:
    
```

```

2001 MEMORY
3:Zoom Out
4:ZDecimal
5:ZSquare
6:ZStandard
7:ZTrig
8:ZInteger
9:ZoomStat
    
```

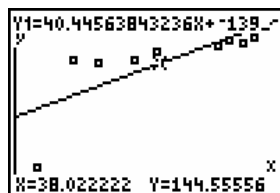
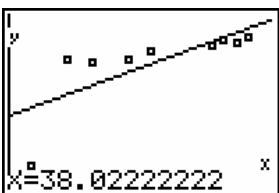
```

2001 Plot2 Plot3
Y1=40.445638432
36X+ -1393.277496
8392
√Y2=
√Y3=
√Y4=
√Y5=
    
```



```

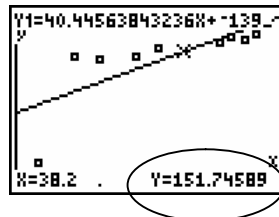
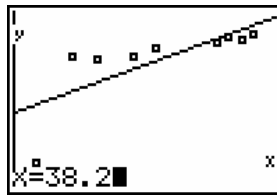
2001 CALCULATE
1:value
2:zero
3:minimum
4:maximum
5:intersect
6:dy/dx
7:∫f(x)dx
    
```



5.1.)

```

CALCULATE
1:value
2:zero
3:minimum
4:maximum
5:intersect
6:dy/dx
7:∫f(x)dx
    
```



5.2.)

```

TABLE SETUP
TblStart=1
ΔTbl=1
Indent: Auto
Depend: Ask
    
```

X	Y1
37	103.21
38	143.66
38.3	155.75
38.35	157.81
38.356	158.06

X=38.356

