

Ejercicio 1

<i>n</i>	<i>x</i>	<i>y</i>	$y=b0 + b1*x$	x^2	$x*y$	y^2	b1	1306779.4	covar	Comprobación	/n
1	130	163	155.8728396	16900	21190	26569		1074925.6	var.p	130677.94	13067.794
2	650	765	788.0331379	422500	497250	585225				107492.56	10749.256
3	99	141	118.1863602	9801	13959	19881	b1	1.21569288		1.215692881	
4	150	166	180.1866972	22500	24900	27556					
5	128	137	153.4414538	16384	17536	18769	b0	-2.16723502			
6	302	355	364.9720152	91204	107210	126025					
7	95	136	113.3235887	9025	12920	18496	r	13067794	covar*100	13067794	
8	945	1206	1146.662538	893025	1139670	1454436		10749256	15958036	1.71537E+14	13097213.99
9	368	433	445.2077454	135424	159344	187489		term 1	term 2	term 1 * term 2	raíz ()
10	961	1130	1166.113624	923521	1085930	1276900					
x	386		-367.295264								
suma	3828	4632		2540284	3079909	3741346	r	13067794			
avg	382.8	463.2									
							r	13097214			
								0.99775372			
							r^2	0.99551249			

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xk =
    386

yk =
    467.0902

xk =
    386

yk =
    467.0902

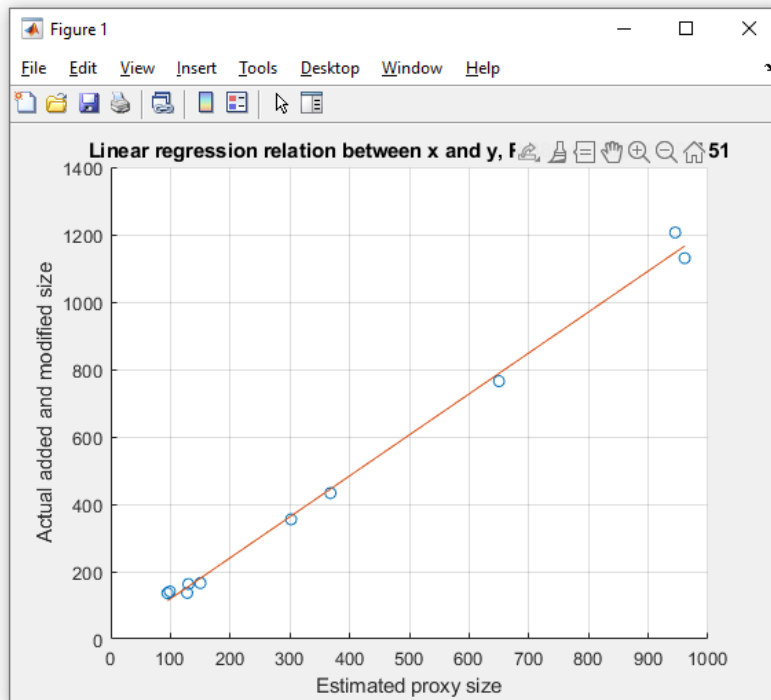
R2 =
    0.9955

R2 =
    0.9955

mytitle =
    'Linear regression relation between x and y, R 386 467.0902 0.99551'

mytitle =
    'Linear regression relation between x and y, R 386 467.0902 0.99551'

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Ejercicio 2

<i>n</i>	<i>x</i>	<i>y</i>	<i>y=b0 + b1*x</i>	<i>x^2</i>	<i>x*y</i>	<i>y^2</i>				Comprobación	/n	
1	130	15	155.8728396	16900	1950	225		b1	180723.64	covar	18072.364	1807.2364
2	650	69.9	788.0331379	422500	45435	4886.01			1074925.6	var.p	100447.44	10044.744
3	99	6.5	118.1863602	9801	643.5	42.25						
4	150	22.4	180.1866972	22500	3360	501.76		b1	0.16812665		0.179918612	
5	128	28.4	153.4414538	16384	3635.2	806.56						
6	302	65.9	364.9720152	91204	19901.8	4342.81		b0	-4.03888157			
7	95	19.4	113.3235887	9025	1843	376.36						
8	945	198.7	1146.662538	893025	187771.5	39481.69		r	1807236.4	covar*100	1807236.4	
9	368	38.8	445.2077454	135424	14278.4	1505.44			10749256	348820.96	3.74957E+12	1936379.559
10	961	138.2	1166.113624	923521	132810.2	19099.24			term 1	term 2	term 1 * term 2	raíz ()
x	386		0									
suma	3828	603.2		2540284	411628.6	71267.12						
avg	382.8	60.32						r	1807236.4			
								r	1936379.56			
									0.9333069			
								r^2	0.87106177			

Command window

```

386
yk =
60.8580
xk =
386
yk =
60.8580
R2 =
0.8711
R2 =
0.8711

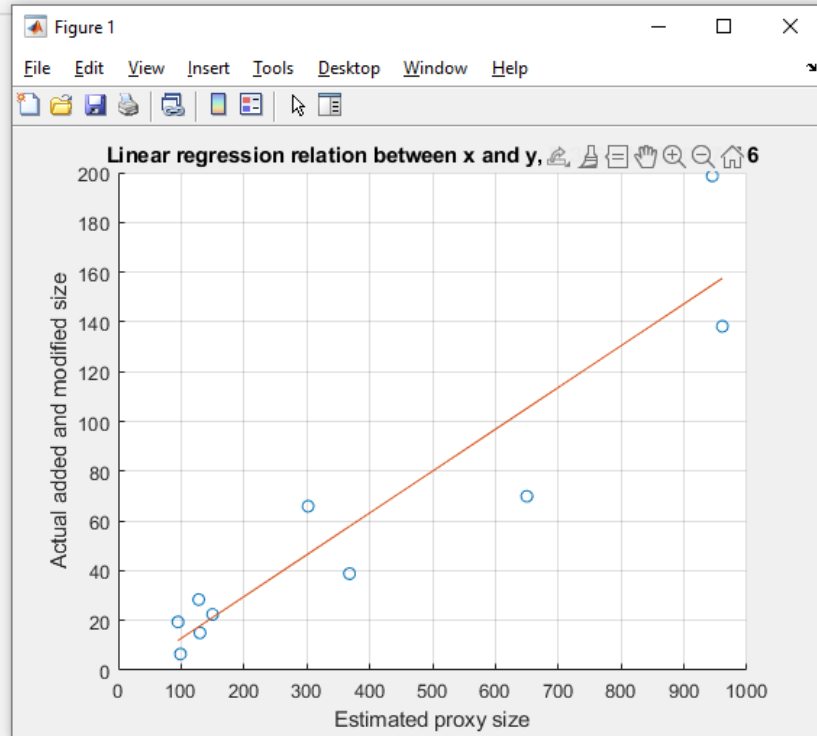
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mytitle =
'Linear regression relation between x and y, R 386 60.858 0.87106'

mytitle =
'Linear regression relation between x and y, R 386 60.858 0.87106'

```



Ejercicio 3

<i>n</i>	<i>x</i>	<i>y</i>	$y=b0 + b1*x$	x^2	$x*y$	y^2					Comprobación	/n
1	163	186	195.9907047	26569	30318	34596		b1	2283542.2	covar	228354.22	22835.422
2	765	699	927.8378193	585225	534735	488601			1595803.6	var.p	150667.05	15066.705
3	141	132	169.2454613	19881	18612	17424						
4	166	272	199.6377833	27556	45152	73984		b1	1.43096694		1.515621498	
5	137	291	164.3826897	18769	39867	84681						
6	355	331	429.4037379	126025	117505	109561		b0	-23.9238883			
7	136	199	163.1669969	18496	27064	39601						
8	1206	1890	1463.95838	1454436	2279340	3572100		r	22835422	covar*100	22835422	
9	433	788	524.2277826	187489	341204	620944			15958036	35227609	5.62163E+14	23709986.35
10	1130	1601	1371.565721	1276900	1809130	2563201			term 1	term 2	term 1 * term 2	raíz ()
x	386		615980742									
suma	4632	6389		3741346	5242927	7604693						
avg	463.2	638.9						r	22835422			
								r	23709986.3			
									0.96311409			
								r^2	0.92758876			

```

xk =
    386

yk =
    528.4294

xk =
    386

yk =
    528.4294

R2 =
    0.9276

R2 =
    0.9276

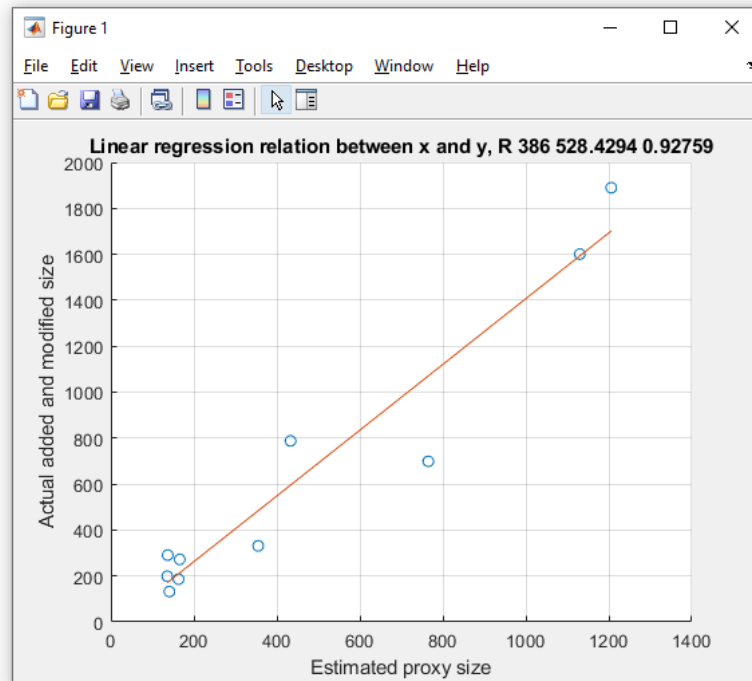
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mytitle =
    'Linear regression relation between x and y, R 386 528.4294 0.92759'

mytitle =
    'Linear regression relation between x and y, R 386 528.4294 0.92759'

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Ejercicio 4

<i>n</i>	<i>x</i>	<i>y</i>	<i>y=b0 + b1*x</i>	<i>x^2</i>	<i>x*y</i>	<i>y^2</i>					Comprobación	/n
1	163	15	195.9907047	26569	2445	225		b1	223673.46	covar	22367.346	2236.7346
2	765	69.9	927.8378193	585225	53473.5	4886.01			1595803.6	var.p	150667.05	15066.705
3	141	6.5	169.2454613	19881	916.5	42.25						
4	166	22.4	199.6377833	27556	3718.4	501.76		b1	0.14016353		0.148455459	
5	137	28.4	164.3826897	18769	3890.8	806.56						
6	355	65.9	429.4037379	126025	23394.5	4342.81		b0	-4.60374542			
7	136	19.4	163.1669969	18496	2638.4	376.36						
8	1206	198.7	1463.95838	1454436	239632.2	39481.69		r	2236734.6	covar*100	2236734.6	
9	433	38.8	524.2277826	187489	16800.4	1505.44			15958036	348820.96	5.5665E+12	2359342.586
10	1130	138.2	1371.565721	1276900	156166	19099.24			term 1	term 2	term 1 * term 2	raíz ()
x	386		615980243.7									
suma	4632	603.2		3741346	503075.7	71267.12						
avg	463.2	60.32						r	2236734.6			
								r	2359342.59			
									0.94803299			
								r^2	0.89876655			

xx =

386

yk =

49.4994

xk =

386

yk =

49.4994

R2 =

0.8988

R2 =

0.8988

mytitle =

'Linear regression relation between x and y, R 386 49.4994 0.89877'

mytitle =

'Linear regression relation between x and y, R 386 49.4994 0.89877'

