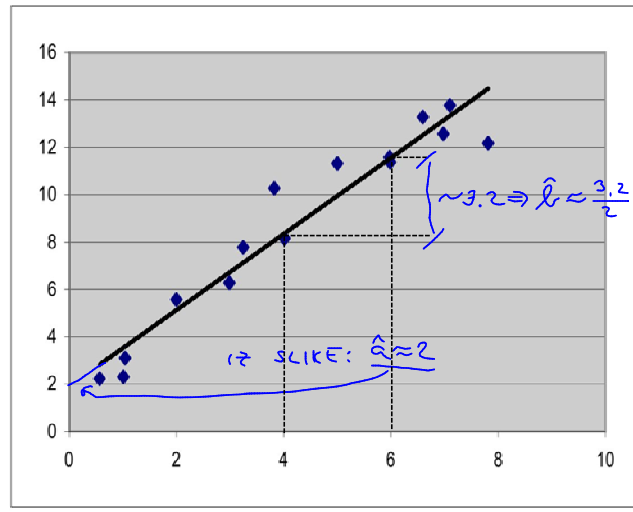
STATISTIKA 25.1.2012

PODATKI

X	Y
4.016	8.163
0.565	2.235
5.984	11.369
1.996	5.571
1.008	2.303
2.987	6.282
5.978	11.593
3.243	7.779
4.998	11.323
7.101	13.768
6.981	12.574
3.824	10.280
6.596	13.279
1.043	3.102
7.817	12.174



SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.9640
R Square	0.9293
Adjusted R Squa	0.9239
Standard Error	1.1167
Observations	15

→ $\hat{\sigma}$

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	213.11	213.11	170.88	7.44E-09
Residual	13	16.21	1.25		
Total	14	229.32			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	1.921	0.599	3.206	6.89E-03	0.626	3.215	0.626	3.215
X Variable 1	1.606	0.123	13.072	7.44E-09	1.340	1.871	1.340	1.871

$\hat{a}$

$\hat{b}$

PREIZKUS DOMNEVE

H_0: X,Y STA LIN. NEODVISNI ($b=0$)

H_1: X,Y STA LIN. ODVISNI ($b \neq 0$)

$\alpha = 5\%$

$T = 13,072$ $\quad \alpha_{dej} = 7,44 \cdot 10^{-9}$ $\Rightarrow$ H_0 ZAVRNEMO!

S TVEGANJEM $\alpha = 5\%$ LAHKO TRDIMO, DA STA X,Y LINEARNO ODVISNI. X,Y STA STATISTIČNO ZNAČILNO LINEARNO ODVISNI.