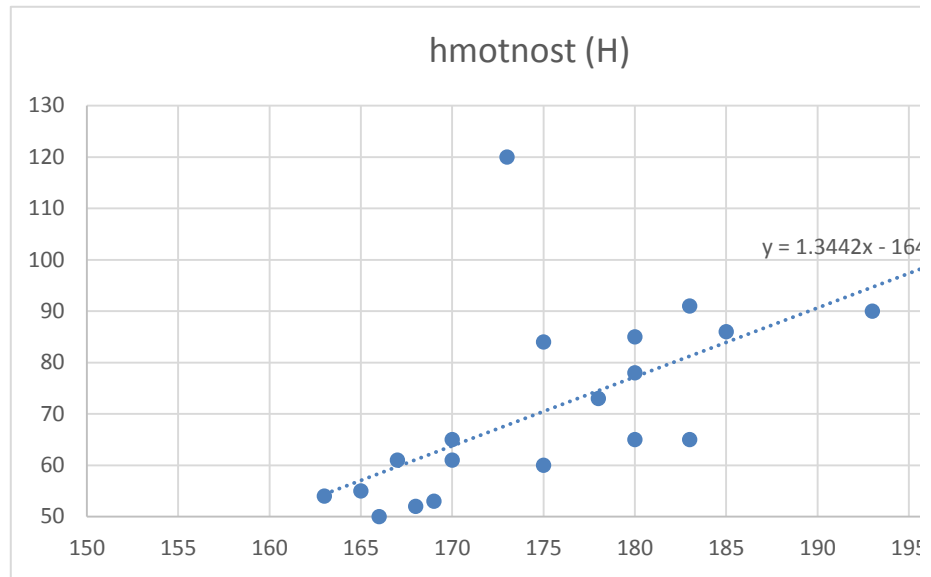


číslo	výška (V)	hmotnost (H)	pohlaví (P)	$V_i - m_V$	$H_i - m_H$	$(V_i - m_V)^2$	$(H_i - m_H)^2$	$zV_i$
1	180	78	1	4.428571	6.761905	19.61224	45.72336	0.462573
2	170	65	2	-5.57143	-6.2381	31.04082	38.91383	-0.58195
3	168	52	2	-7.57143	-19.2381	57.32653	370.1043	-0.79085
4	193	90	1	17.42857	18.7619	303.7551	352.0091	1.820449
5	180	85	1	4.428571	13.7619	19.61224	189.39	0.462573
6	165	48	2	-10.5714	-23.2381	111.7551	540.0091	-1.10421
7	178	73	1	2.428571	1.761905	5.897959	3.104308	0.253669
8	175	60	2	-0.57143	-11.2381	0.326531	126.2948	-0.05969
9	165	55	2	-10.5714	-16.2381	111.7551	263.6757	-1.10421
10	185	86	1	9.428571	14.7619	88.89796	217.9138	0.984833
11	163	54	2	-12.5714	-17.2381	158.0408	297.1519	-1.31311
12	170	61	2	-5.57143	-10.2381	31.04082	104.8186	-0.58195
13	166	50	2	-9.57143	-21.2381	91.61224	451.0567	-0.99976
14	199	100	1	23.42857	28.7619	548.898	827.2472	2.447162
15	180	65	2	4.428571	-6.2381	19.61224	38.91383	0.462573
16	167	61	2	-8.57143	-10.2381	73.46939	104.8186	-0.8953
17	175	84	1	-0.57143	12.7619	0.326531	162.8662	-0.05969
18	183	91	1	7.428571	19.7619	55.18367	390.5329	0.775929
19	173	120	1	-2.57143	48.7619	6.612245	2377.723	-0.26859
20	183	65	2	7.428571	-6.2381	55.18367	38.91383	0.775929
21	169	53	2	-6.57143	-18.2381	43.18367	332.6281	-0.6864
						$s_V^2$	$s_H^2$	
m	175.5714	71.23809524				91.65714	363.6905	
s	9.573774	19.07067058			kontrola	9.573774	19.07067	

zHi	zV x zH
0.354571	0.164015
-0.3271	0.190357
-1.00878	0.797794
0.983809	1.790975
0.721627	0.333805
-1.21853	1.345504
0.092388	0.023436
-0.58929	0.035173
-0.85147	0.940199
0.774063	0.762323
-0.90391	1.186929
-0.53685	0.312418
-1.11365	1.113379
1.508175	3.690747
-0.3271	-0.15131
-0.53685	0.480644
0.66919	-0.03994
1.036246	0.804054
2.556906	-0.68676
-0.3271	-0.25381
-0.95634	0.656433

r	0.674818
kontrola r	0.674818
r2	0.45538

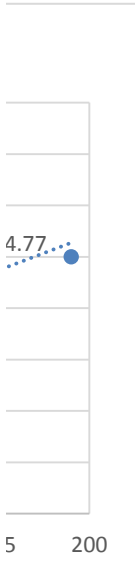


#### Jednoduchá regrese

b	1.344218
a	-164.768

#### významnost

t	3.98581
df	19
p	0.000904



VÝSLEDEK

<i>Regresní statistika</i>	
Násobné R	0.674818
Hodnota s <sub>p</sub>	0.45538
Nastavená	0.426715
Chyba stř. l	14.43947
Pozorování	21

ANOVA

	<i>Rozdíl</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>ýznamnost F</i>
Regrese	1	3312.344	3312.344	15.88668	0.000791
Rezidua	19	3961.465	208.4982		
Celkem	20	7273.81			

	<i>Koeficienty</i>	<i>ba stř. hodn.</i>	<i>t Stat</i>	<i>Hodnota P</i>	<i>Dolní 95%</i>	<i>Horní 95%</i>	<i>Dolní 95,0%</i>
Hranice	-164.768	59.29538	-2.77877	0.011964	-288.875	-40.6614	-288.875
výška (V)	1.344218	0.337251	3.98581	0.000791	0.638344	2.050092	0.638344

Horní 95,0%  
-40.6614  
2.050092

číslo	výška (V)	hmotnost (H)	pohlaví (P)	$V_i - m_V$	$H_i - m_H$	$(V_i - m_V)^2$	$(H_i - m_H)^2$	$zV_i$
1	180	78	1	4.428571	6.761905	19.61224	45.72336	0.462573
2	170	65	2	-5.57143	-6.2381	31.04082	38.91383	-0.58195
3	168	52	2	-7.57143	-19.2381	57.32653	370.1043	-0.79085
4	193	90	1	17.42857	18.7619	303.7551	352.0091	1.820449
5	180	85	1	4.428571	13.7619	19.61224	189.39	0.462573
6	165	48	2	-10.5714	-23.2381	111.7551	540.0091	-1.10421
7	178	73	1	2.428571	1.761905	5.897959	3.104308	0.253669
8	175	60	2	-0.57143	-11.2381	0.326531	126.2948	-0.05969
9	165	55	2	-10.5714	-16.2381	111.7551	263.6757	-1.10421
10	185	86	1	9.428571	14.7619	88.89796	217.9138	0.984833
11	163	54	2	-12.5714	-17.2381	158.0408	297.1519	-1.31311
12	170	61	2	-5.57143	-10.2381	31.04082	104.8186	-0.58195
13	166	50	2	-9.57143	-21.2381	91.61224	451.0567	-0.99976
14	199	100	1	23.42857	28.7619	548.898	827.2472	2.447162
15	180	65	2	4.428571	-6.2381	19.61224	38.91383	0.462573
16	167	61	2	-8.57143	-10.2381	73.46939	104.8186	-0.8953
17	175	84	1	-0.57143	12.7619	0.326531	162.8662	-0.05969
18	183	91	1	7.428571	19.7619	55.18367	390.5329	0.775929
19	173	120	1	-2.57143	48.7619	6.612245	2377.723	-0.26859
20	183	65	2	7.428571	-6.2381	55.18367	38.91383	0.775929
21	169	53	2	-6.57143	-18.2381	43.18367	332.6281	-0.6864
						$s_V^2$	$s_H^2$	
m	175.5714	71.23809524				91.65714	363.6905	
s	9.573774	19.07067058			kontrola	9.573774	19.07067	

zHi	zV x zH	Hi^	ei
0.354571	0.164015	77.19106	0.808941
-0.3271	0.190357	63.74888	1.251117
-1.00878	0.797794	61.06045	-9.06045
0.983809	1.790975	94.66589	-4.66589
0.721627	0.333805	77.19106	7.808941
-1.21853	1.345504	57.0278	-9.0278
0.092388	0.023436	74.50262	-1.50262
-0.58929	0.035173	70.46997	-10.47
-0.85147	0.940199	57.0278	-2.0278
0.774063	0.762323	83.91215	2.087853
-0.90391	1.186929	54.33936	-0.33936
-0.53685	0.312418	63.74888	-2.74888
-1.11365	1.113379	58.37201	-8.37201
1.508175	3.690747	102.7312	-2.73119
-0.3271	-0.15131	77.19106	-12.1911
-0.53685	0.480644	59.71623	1.28377
0.66919	-0.03994	70.46997	13.53003
1.036246	0.804054	81.22371	9.776288
2.556906	-0.68676	67.78154	52.21846
-0.3271	-0.25381	81.22371	-16.2237
-0.95634	0.656433	62.40467	-9.40467

Jednoduchá regrese

b 1.344218  
a -164.768

R<sup>2</sup> 0.674818  
SS 3961.465

významnost

r 0.674818 t 3.98581  
kontrola r 0.674818 df 19  
r2 0.45538 p 0.000904

## VÝSLEDEK

<i>Regresní statistika</i>	
Násobné R	0.674818
Hodnota $s_e$	0.45538
Nastavená	0.426715
Chyba stř. l	14.43947
Pozorování	21

## ANOVA

	<i>Rozdíl</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>ýznamnost F</i>
Regrese	1	3312.344	3312.344	15.88668	0.000791
Rezidua	19	3961.465	208.4982		
Celkem	20	7273.81			

	<i>Koeficienty</i>	<i>ba stř. hodn</i>	<i>t Stat</i>	<i>Hodnota P</i>	<i>Dolní 95%</i>	<i>Horní 95%</i>	<i>Dolní 95,0%</i>
Hranice	-164.768	59.29538	-2.77877	0.011964	-288.875	-40.6614	-288.875
výška (V)	1.344218	0.337251	3.98581	0.000791	0.638344	2.050092	0.638344

Horní 95,0%

-40.6614

2.050092



číslo	výška (V)	hmotnost (H)	pohlaví (P)	$V_i - m_V$	$H_i - m_H$	$(V_i - m_V)^2$	$(H_i - m_H)^2$	$zV_i$
1	180	78	0	4.428571	6.761905	19.61224	45.72336	0.462573
2	170	65	1	-5.57143	-6.2381	31.04082	38.91383	-0.58195
3	168	52	1	-7.57143	-19.2381	57.32653	370.1043	-0.79085
4	193	90	0	17.42857	18.7619	303.7551	352.0091	1.820449
5	180	85	0	4.428571	13.7619	19.61224	189.39	0.462573
6	165	48	1	-10.5714	-23.2381	111.7551	540.0091	-1.10421
7	178	73	0	2.428571	1.761905	5.897959	3.104308	0.253669
8	175	60	1	-0.57143	-11.2381	0.326531	126.2948	-0.05969
9	165	55	1	-10.5714	-16.2381	111.7551	263.6757	-1.10421
10	185	86	0	9.428571	14.7619	88.89796	217.9138	0.984833
11	163	54	1	-12.5714	-17.2381	158.0408	297.1519	-1.31311
12	170	61	1	-5.57143	-10.2381	31.04082	104.8186	-0.58195
13	166	50	1	-9.57143	-21.2381	91.61224	451.0567	-0.99976
14	199	100	0	23.42857	28.7619	548.898	827.2472	2.447162
15	180	65	1	4.428571	-6.2381	19.61224	38.91383	0.462573
16	167	61	1	-8.57143	-10.2381	73.46939	104.8186	-0.8953
17	175	84	0	-0.57143	12.7619	0.326531	162.8662	-0.05969
18	183	91	0	7.428571	19.7619	55.18367	390.5329	0.775929
19	173	120	0	-2.57143	48.7619	6.612245	2377.723	-0.26859
20	183	65	1	7.428571	-6.2381	55.18367	38.91383	0.775929
21	169	53	1	-6.57143	-18.2381	43.18367	332.6281	-0.6864
						$s^2_V$	$s^2_H$	
m	175.5714	71.23809524				91.65714	363.6905	
s	9.573774	19.07067058			kontrola	9.573774	19.07067	

zHi	zV x zH	Hi^	ei			
0.354571	0.164015	88.67377	-10.6738			
-0.3271	0.190357	57.38806	7.611943	H = a + b1V + b2P		
-1.00878	0.797794	56.70069	-4.70069			
0.983809	1.790975	93.14165	-3.14165	a	26.81085	
0.721627	0.333805	88.67377	-3.67377	b1	0.343683	
-1.21853	1.345504	55.66964	-7.66964	b2	-27.8489	
0.092388	0.023436	87.9864	-14.9864			
-0.58929	0.035173	59.10647	0.893529			
-0.85147	0.940199	55.66964	-0.66964			
0.774063	0.762323	90.39218	-4.39218			
-0.90391	1.186929	54.98228	-0.98228			
-0.53685	0.312418	57.38806	3.611943	R <sup>2</sup>	0.866858	
-1.11365	1.113379	56.01333	-6.01333	SS	1807.954	
1.508175	3.690747	95.20374	4.796256			
-0.3271	-0.15131	60.82489	4.175114			
-0.53685	0.480644	56.35701	4.642992			
0.66919	-0.03994	86.95536	-2.95536			
1.036246	0.804054	89.70482	1.295182			
2.556906	-0.68676	86.26799	33.73201			
-0.3271	-0.25381	61.85593	3.144065			
-0.95634	0.656433	57.04437	-4.04437			
			významnost			
r	0.674818	t	3.98581			
kontrola r	0.674818	df	19			
r2	0.45538	p	0.000904			

číslo	výška (V)	pohlaví (P)	hmotnost (H)
1	180	0	78
2	170	1	65
3	168	1	52
4	193	0	90
5	180	0	85
6	165	1	48
7	178	0	73
8	175	1	60
9	165	1	55
10	185	0	86
11	163	1	54
12	170	1	61
13	166	1	50
14	199	0	100
15	180	1	65
16	167	1	61
17	175	0	84
18	183	0	91
19	173	0	120
20	183	1	65
21	169	1	53

VÝSLEDEK

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*Regresní statistika*

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Násobné R

Hodnota spolehlivosti R

Nastavená hodnota spolehlivosti R

Chyba stř. hodnoty

Pozorování

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ANOVA

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Regrese

Rezidua

Celkem

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Hranice

výška (V)

pohlaví (P)

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0.866858
0.751443
0.723826
10.02207
21

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<i>Rozdíl</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>ýznamnost F</i>
2	5465.855	2732.928	27.20904	3.62E-06
18	1807.954	100.4419		
20	7273.81			

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<i>Koeficienty</i>	<i>ba</i>	<i>stř. hodr.</i>	<i>t Stat</i>	<i>Hodnota P</i>	<i>Dolní 95%</i>	<i>Horní 95%</i>	<i>Dolní 95,0%</i>	<i>Horní 95,0%</i>
26.79781	58.35562	0.459216	0.651577	-95.8028	149.3984	-95.8028	149.3984	
0.343754	0.318554	1.07911	0.294787	-0.3255	1.013011	-0.3255	1.013011	
-27.848	6.014208	-4.63037	0.000208	-40.4834	-15.2127	-40.4834	-15.2127	

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číslo	výška (V)	hmotnost (H)	pohlaví (P)	zVi	zHi	zPi	Vi <sup>^</sup>	Hi <sup>^</sup>
1	180	78	1	0.462573	0.354571	-1.12687	0.764324	0.966331
2	170	65	2	-0.58195	-0.3271	0.845154	-0.57324	-0.72475
3	168	52	2	-0.79085	-1.00878	0.845154	-0.57324	-0.72475
4	193	90	1	1.820449	0.983809	-1.12687	0.764324	0.966331
5	180	85	1	0.462573	0.721627	-1.12687	0.764324	0.966331
6	165	48	2	-1.10421	-1.21853	0.845154	-0.57324	-0.72475
7	178	73	1	0.253669	0.092388	-1.12687	0.764324	0.966331
8	175	60	2	-0.05969	-0.58929	0.845154	-0.57324	-0.72475
9	165	55	2	-1.10421	-0.85147	0.845154	-0.57324	-0.72475
10	185	86	1	0.984833	0.774063	-1.12687	0.764324	0.966331
11	163	54	2	-1.31311	-0.90391	0.845154	-0.57324	-0.72475
12	170	61	2	-0.58195	-0.53685	0.845154	-0.57324	-0.72475
13	166	50	2	-0.99976	-1.11365	0.845154	-0.57324	-0.72475
14	199	100	1	2.447162	1.508175	-1.12687	0.764324	0.966331
15	180	65	2	0.462573	-0.3271	0.845154	-0.57324	-0.72475
16	167	61	2	-0.8953	-0.53685	0.845154	-0.57324	-0.72475
17	175	84	1	-0.05969	0.66919	-1.12687	0.764324	0.966331
18	183	91	1	0.775929	1.036246	-1.12687	0.764324	0.966331
19	173	120	1	-0.26859	2.556906	-1.12687	0.764324	0.966331
20	183	65	2	0.775929	-0.3271	0.845154	-0.57324	-0.72475
21	169	53	2	-0.6864	-0.95634	0.845154	-0.57324	-0.72475
m	175.5714	71.23809524	1.5714286	-1.3E-15	-2E-16	6.34E-17		
s	9.573774	19.07067058	0.5070926	1	1	1		

eV	eH
-0.30175	-0.61176
-0.0087	0.397644
-0.21761	-0.28403
1.056126	0.017479
-0.30175	-0.2447
-0.53096	-0.49378
-0.51065	-0.87394
0.513556	0.135461
-0.53096	-0.12672
0.22051	-0.19227
-0.73987	-0.17916
-0.0087	0.187898
-0.42651	-0.3889
1.682838	0.541844
1.035816	0.397644
-0.32206	0.187898
-0.82401	-0.29714
0.011606	0.069915
-1.03291	1.590575
1.349172	0.397644
-0.11316	-0.23159

Regrese výšky na pohlaví

$$V = aV + bV * P + eV$$

bV	-0.67827	rVP
aV		0

Regrese hmotnosti na pohlaví

$$H = aH + bH * P + eH$$

bH	-0.85753	rHP
aH		0

	V	H	r2
V			
H	0.674818		0.45538
P	-0.67827	-0.85753	
rVH.P	0.2465		0.060762
kontrola reVeH	0.2465		