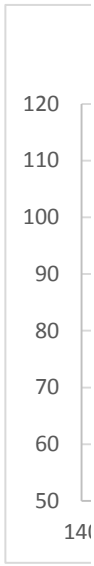
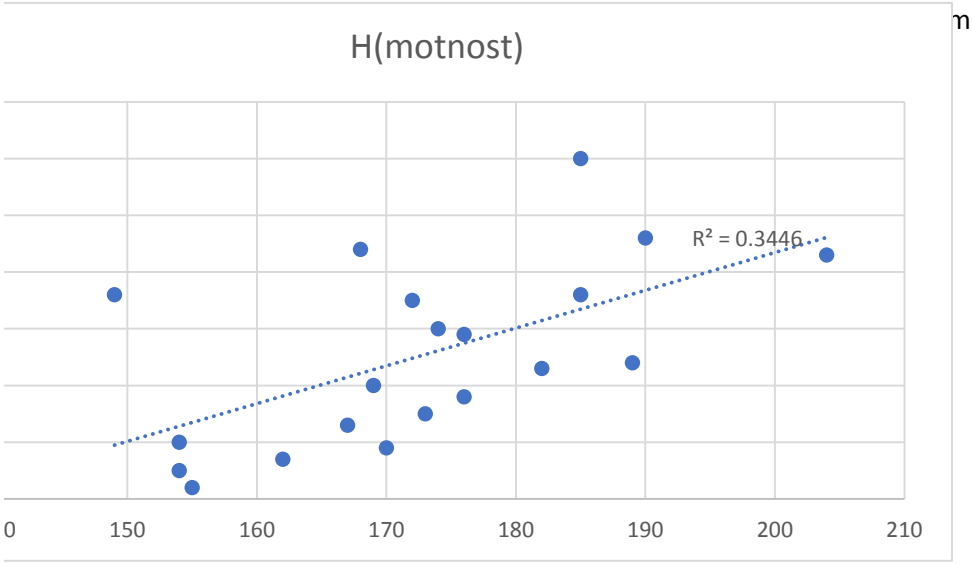
i	V(ýška)	H(motnost)	P(ohlaví)	Vi-mV	Hi-mH	z_{Vi}	z_{Hi}	$z_{Vi} \times z_{Hi}$
1	172	85	1	-0.7	9.75	-0.05001	0.61408	-0.03071
2	170	59	0	-2.7	-16.25	-0.1929	-1.02347	0.197431
3	149	86	0	-23.7	10.75	-1.69327	0.677063	-1.14645
4	176	79	1	3.3	3.75	0.235771	0.236185	0.055686
5	185	86	1	12.3	10.75	0.878784	0.677063	0.594992
6	162	57	0	-10.7	-18.25	-0.76447	-1.14943	0.878707
7	182	73	1	9.3	-2.25	0.664446	-0.14171	-0.09416
8	190	96	1	17.3	20.75	1.236013	1.306888	1.615331
9	154	55	0	-18.7	-20.25	-1.33604	-1.2754	1.703978
10	167	63	1	-5.7	-12.25	-0.40724	-0.77154	0.314202
11	204	93	0	31.3	17.75	2.236255	1.117941	2.5
12	155	52	1	-17.7	-23.25	-1.26459	-1.46434	1.851798
13	174	80	1	1.3	4.75	0.09288	0.299167	0.027787
14	185	110	0	12.3	34.75	0.878784	2.188644	1.923345
15	169	70	1	-3.7	-5.25	-0.26435	-0.33066	0.087409
16	173	65	0	0.3	-10.25	0.021434	-0.64557	-0.01384
17	189	74	0	16.3	-1.25	1.164567	-0.07873	-0.09168
18	154	60	0	-18.7	-15.25	-1.33604	-0.96048	1.283243
19	176	68	1	3.3	-7.25	0.235771	-0.45662	-0.10766
20	168	94	0	-4.7	18.75	-0.3358	1.180923	-0.39655



								kontrola
m	172.7	75.25	0.5					
s	13.997	15.8774086				rVH	0.586993	0.586993

	kontrola					
m	172.7	75.25	0.5	8.3E-16	0	
s	13.997	15.8774086	0.512989	1	1	

m z-skórů a následně kor



Statistická významnost	
t	3.076115
df	18
p-hodnota	0.006511

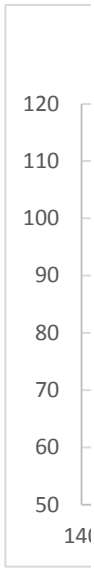
	V(ýška)	*H(motnost)*
V(ýška)	1	
H(motnost	0.586993	1

r^2

0.34456

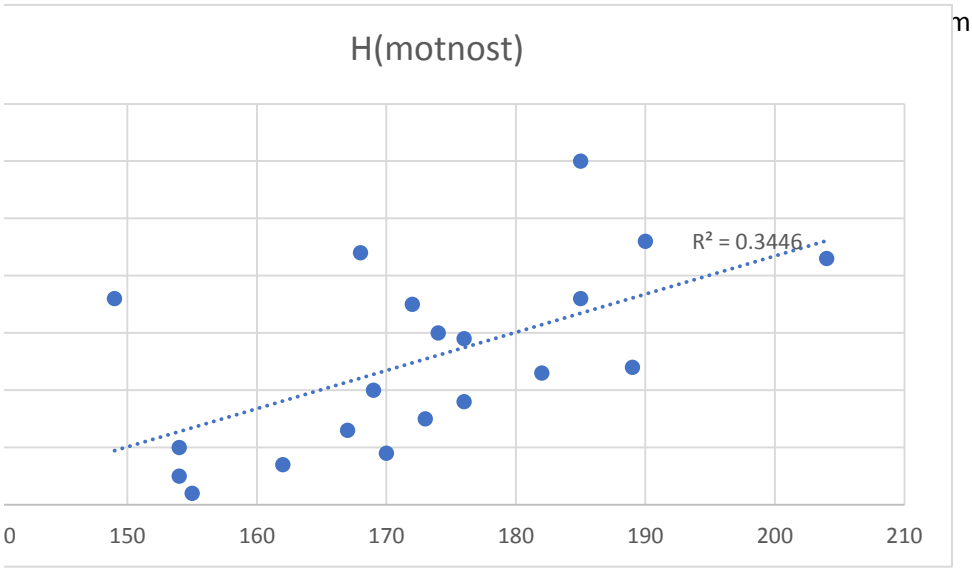
elací

i	V(ýška)	H(motnost)	P(ohlaví)	Vi-mV	Hi-mH	z_{Vi}	z_{Hi}	$z_{Vi} \times z_{Hi}$
2	170	59	0	-2.7	-16.25	-0.1929	-1.02347	0.197431
3	149	86	0	-23.7	10.75	-1.69327	0.677063	-1.14645
6	162	57	0	-10.7	-18.25	-0.76447	-1.14943	0.878707
9	154	55	0	-18.7	-20.25	-1.33604	-1.2754	1.703978
11	204	93	0	31.3	17.75	2.236255	1.117941	2.5
14	185	110	0	12.3	34.75	0.878784	2.188644	1.923345
16	173	65	0	0.3	-10.25	0.021434	-0.64557	-0.01384
17	189	74	0	16.3	-1.25	1.164567	-0.07873	-0.09168
18	154	60	0	-18.7	-15.25	-1.33604	-0.96048	1.283243
20	168	94	0	-4.7	18.75	-0.3358	1.180923	-0.39655
1	172	85	1	-0.7	9.75	-0.05001	0.61408	-0.03071
4	176	79	1	3.3	3.75	0.235771	0.236185	0.055686
5	185	86	1	12.3	10.75	0.878784	0.677063	0.594992
7	182	73	1	9.3	-2.25	0.664446	-0.14171	-0.09416
8	190	96	1	17.3	20.75	1.236013	1.306888	1.615331
10	167	63	1	-5.7	-12.25	-0.40724	-0.77154	0.314202
12	155	52	1	-17.7	-23.25	-1.26459	-1.46434	1.851798
13	174	80	1	1.3	4.75	0.09288	0.299167	0.027787
15	169	70	1	-3.7	-5.25	-0.26435	-0.33066	0.087409
19	176	68	1	3.3	-7.25	0.235771	-0.45662	-0.10766



m	172.7	75.25	0.5			kontrola
s	13.997	15.8774086			rVP	0.139274

	kontrola		
m	172.7	75.25	0.5
s	13.997	15.8774086	0.512989



m z-skórů a následně kor

ženy
170
149
162
154
204
185
173
189
154
168

Statistická významnost	
t	0.596703
df	18
p-hodnota	0.558137

r^2

0.019397

elací

muži
172
176
185
182
190
167
155
174
169
176

Dvouvýběrový t-test s rovností rozptylů

	ženy	*muži*
Stř. hodnot	170.8	174.6
Rozptyl	307.2889	98.26667
Pozorování	10	10
Společný rc	202.7778	
Hyp. rozdíl	0	
Rozdíl	18	
t Stat	-0.5967	
P(T<=t) (1)	0.279068	
t krit (1)	1.734064	
P(T<=t) (2)	0.558137	
t krit (2)	2.100922	

Dvouvýběrový t-test s nerovností r

	ženy	*muži*
Stř. hodnot	170.8	174.6
Rozptyl	307.2889	98.26667
Pozorování	10	10
Hyp. rozdíl	0	
Rozdíl	14	
t Stat	-0.5967	
P(T<=t) (1)	0.280116	
t krit (1)	1.76131	
P(T<=t) (2)	0.560232	
t krit (2)	2.144787	

rozptylů

i	V(ýška)	H(motnost)	P(ohlaví)	Vi-mV	Hi-mH	z_{Vi}	z_{Hi}	z_{Vi} x z_{Hi}	H_i^
1	172	85	1	-0.7	9.75	-0.05001	0.61408	-0.03071	74.78389
2	170	59	0	-2.7	-16.25	-0.1929	-1.02347	0.197431	73.45215
3	149	86	0	-23.7	10.75	-1.69327	0.677063	-1.14645	59.46889
4	176	79	1	3.3	3.75	0.235771	0.236185	0.055686	77.44737
5	185	86	1	12.3	10.75	0.878784	0.677063	0.594992	83.4402
6	162	57	0	-10.7	-18.25	-0.76447	-1.14943	0.878707	68.12519
7	182	73	1	9.3	-2.25	0.664446	-0.14171	-0.09416	81.44259
8	190	96	1	17.3	20.75	1.236013	1.306888	1.615331	86.76954
9	154	55	0	-18.7	-20.25	-1.33604	-1.2754	1.703978	62.79824
10	167	63	1	-5.7	-12.25	-0.40724	-0.77154	0.314202	71.45454
11	204	93	0	31.3	17.75	2.236255	1.117941	2.5	96.09172
12	155	52	1	-17.7	-23.25	-1.26459	-1.46434	1.851798	63.46411
13	174	80	1	1.3	4.75	0.09288	0.299167	0.027787	76.11563
14	185	110	0	12.3	34.75	0.878784	2.188644	1.923345	83.4402
15	169	70	1	-3.7	-5.25	-0.26435	-0.33066	0.087409	72.78628
16	173	65	0	0.3	-10.25	0.021434	-0.64557	-0.01384	75.44976
17	189	74	0	16.3	-1.25	1.164567	-0.07873	-0.09168	86.10368
18	154	60	0	-18.7	-15.25	-1.33604	-0.96048	1.283243	62.79824
19	176	68	1	3.3	-7.25	0.235771	-0.45662	-0.10766	77.44737
20	168	94	0	-4.7	18.75	-0.3358	1.180923	-0.39655	72.12041

m	172.7	75.25	0.5					kontrola
s	13.997	15.8774086				rVH	0.586993	0.586993

	kontrola						rVe
m	172.7	75.25	0.5		8.3E-16	0	RHe
s	13.997	15.8774086	0.512989		1	1	R
							R^2

e_i

-10.21610875
14.45215195
-26.53111063
-1.552630165
-2.559803342
11.12519478
8.442587717
-9.230455107
7.798237601
8.454543012
3.091719951
11.46410725
-3.884369459
-26.55980334
2.786282306
10.44976089
12.10367525
2.798237601
9.447369835
-21.87958734

a	-39.7457
b	0.66587

$H = a + bV + e$

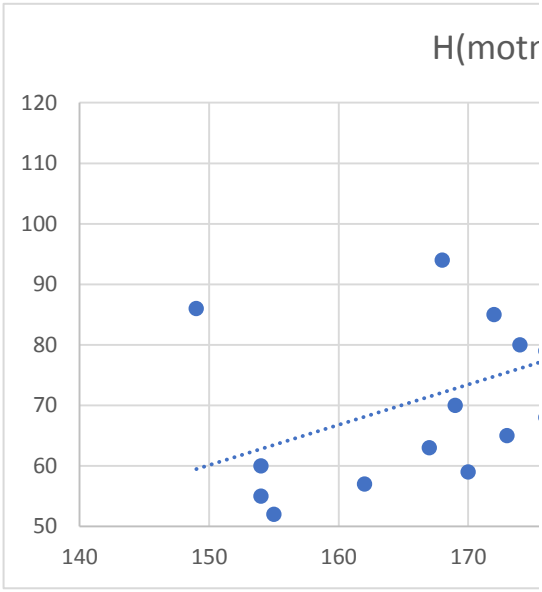
$H_i^{\wedge} = a + bV_i$

$H_i = Hi^{\wedge} + e_i$

z toho

$ei = Hi^{\wedge} - H_i$

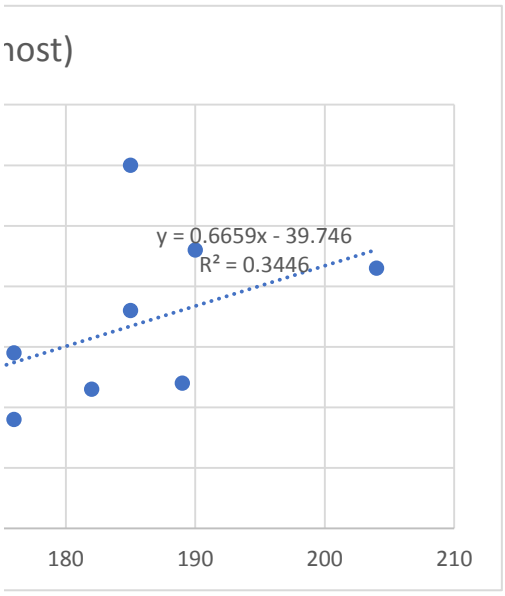
SS	3139.392



r^2

0.344560347

-4.53131E-16
-0.809592276
0.586992629
0.344560347


ıost)
y = 0.6659x - 39.746
R² = 0.3446
180
190
200
210

i	V(ýška)	H(motnost)	P(ohlaví)	Vi-mV	Hi-mH	z_{Vi}	z_{Hi}	$z_{Vi} \times z_{Hi}$	H_i^
1	172	85	1	-0.7	9.75	-0.05001	0.61408	-0.03071	73.43364
2	170	59	0	-2.7	-16.25	-0.1929	-1.02347	0.197431	74.75705
3	149	86	0	-23.7	10.75	-1.69327	0.677063	-1.14645	60.4894
4	176	79	1	3.3	3.75	0.235771	0.236185	0.055686	76.15129
5	185	86	1	12.3	10.75	0.878784	0.677063	0.594992	82.26599
6	162	57	0	-10.7	-18.25	-0.76447	-1.14943	0.878707	69.32175
7	182	73	1	9.3	-2.25	0.664446	-0.14171	-0.09416	80.22776
8	190	96	1	17.3	20.75	1.236013	1.306888	1.615331	85.66305
9	154	55	0	-18.7	-20.25	-1.33604	-1.2754	1.703978	63.88646
10	167	63	1	-5.7	-12.25	-0.40724	-0.77154	0.314202	70.03658
11	204	93	0	31.3	17.75	2.236255	1.117941	2.5	97.85704
12	155	52	1	-17.7	-23.25	-1.26459	-1.46434	1.851798	61.88364
13	174	80	1	1.3	4.75	0.09288	0.299167	0.027787	74.79246
14	185	110	0	12.3	34.75	0.878784	2.188644	1.923345	84.94822
15	169	70	1	-3.7	-5.25	-0.26435	-0.33066	0.087409	71.39541
16	173	65	0	0.3	-10.25	0.021434	-0.64557	-0.01384	76.79528
17	189	74	0	16.3	-1.25	1.164567	-0.07873	-0.09168	87.66587
18	154	60	0	-18.7	-15.25	-1.33604	-0.96048	1.283243	63.88646
19	176	68	1	3.3	-7.25	0.235771	-0.45662	-0.10766	76.15129
20	168	94	0	-4.7	18.75	-0.3358	1.180923	-0.39655	73.39822

m	172.7	75.25	0.5				kontrola
s	13.997	15.8774086			rVH	0.586993	0.586993

	kontrola						rVe
m	172.7	75.25	0.5		8.3E-16	0	RHe
s	13.997	15.8774086	0.512989		1	1	R

e_i			P(ohlaví)	V(ýška)	H(motnost)
-11.56635832			1	172	85
15.75704619	a	-40.7429	0	170	59
-25.51059815	b1	0.679412	0	149	86
-2.848711778	b2	-2.68223	1	176	79
-3.734007063			1	185	86
12.32175311	$H = a + b_1V + b_2P + e$		0	162	57
7.227758032			1	182	73
-10.33694889	$H_i\hat{} = a + b_1V_i + b_2P_i$		1	190	96
8.886460026			0	154	55
7.036583508	$H_i = H_i\hat{} + e_i$		1	167	63
4.857041774			0	204	93
9.883643888	z toho		1	155	52
-5.207535048			1	174	80
-25.05177929	$e_i = Hi\hat{} - H_i$		0	185	110
1.395406778			1	169	70
11.79528109	SS	3104.115 snaha mini	0	173	65
13.66586725			0	189	74
3.886460026	R^2	0.351925 snaha maxi	0	154	60
8.151288222			1	176	68
-20.60177708			0	168	94

r^2

0.344560347

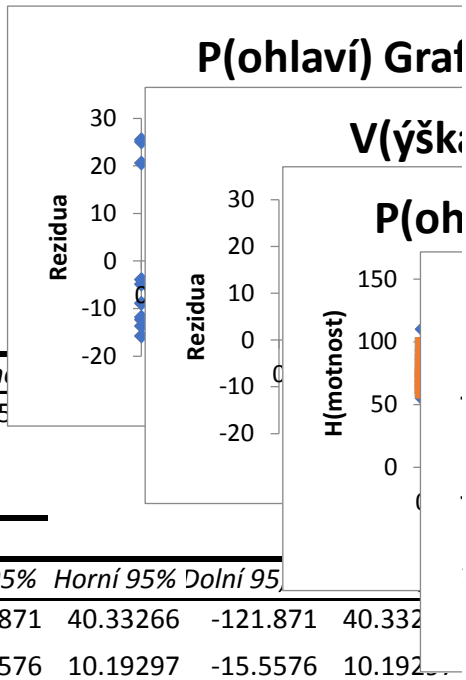
-0.000163671

-0.805127231

0.593233009 vícenásobná korelace ($r_{HH\hat{}}$)

VÝSLEDEK

Regresní statistika	
Násobné R	0.593233
Hodnota sp	0.351925
Nastavená	0.275681
Chyba stř. h	13.51277
Pozorování	20



ANOVA

	Rozdíl	*SS*	*MS*	*F*	*ýznamn*
Regrese	2	1685.635	842.8174	4.615774	0.025
Rezidua	17	3104.115	182.595		
Celkem	19	4789.75			

	Koeficienty	*ba stř. hodr*	*t Stat*	*Hodnota P*	*Dolní 95%*	*Horní 95%*	*Dolní 95*	
Hranice	-40.7691	38.44023	-1.06059	0.303715	-121.871	40.33266	-121.871	40.332
P(ohlaví)	-2.68233	6.102572	-0.43954	0.665805	-15.5576	10.19297	-15.5576	10.192
V(výška)	0.679562	0.223665	3.038301	0.007422	0.20767	1.151454	0.20767	1.151454

REZIDUA

Pozorování	*vané H(mo*	*Rezidua*	*novaná rezidua*
1	73.43314	11.56686	0.904947
2	74.75635	-15.7564	-1.23272
3	60.48556	25.51444	1.996154
4	76.15139	2.848614	0.222865
5	82.26744	3.732559	0.292021
6	69.31986	-12.3199	-0.96386
7	80.22876	-7.22876	-0.56555
8	85.66525	10.33475	0.808552
9	63.88336	-8.88336	-0.695
10	70.03533	-7.03533	-0.55042
11	97.86145	-4.86145	-0.38034
12	61.88059	-9.88059	-0.77302
13	74.79226	5.207737	0.407434
14	84.94978	25.05022	1.959835
15	71.39445	-1.39445	-0.1091
16	76.79504	-11.795	-0.9228
17	87.66802	-13.668	-1.06933
18	63.88336	-3.88336	-0.30382
19	76.15139	-8.15139	-0.63773
20	73.39723	20.60277	1.611883

PRAVDĚPODOBNOST

Percentil	*H(motnost)*
2.5	52
7.5	55
12.5	57
17.5	59
22.5	60
27.5	63
32.5	65
37.5	68
42.5	70
47.5	73
52.5	74
57.5	79
62.5	80
67.5	85
72.5	86
77.5	86
82.5	93
87.5	94
92.5	96
97.5	110

f s rezidui

a) Graf s rezidui

laví) Graf porovnání hodnot

V(ýška) Graf porovnání hodnot