

VII. Sześciany (x^3)

x	0	δ	1	δ	2	δ	3	δ	4	δ
1,00	1,00000	300	1,00300	301	1,00601	302	1,00903	302	1,01205	303
1,01	1,03030	306	1,03336	307	1,03643	308	1,03951	308	1,04259	309
1,02	1,06121	312	1,06433	313	1,06746	314	1,07060	314	1,07374	315
1,03	1,09273	318	1,09591	319	1,09910	320	1,10230	321	1,10551	321
1,04	1,12486	325	1,12811	326	1,13137	326	1,13463	326	1,13789	328
1,05	1,15762	332	1,16094	331	1,16425	333	1,16758	333	1,17091	333
1,06	1,19102	337	1,19439	338	1,19777	339	1,20116	339	1,20455	340
1,07	1,22504	344	1,22848	345	1,23193	345	1,23538	345	1,23883	347
1,08	1,25971	350	1,26321	351	1,26672	352	1,27024	352	1,27376	353
1,09	1,29503	357	1,29860	357	1,30217	358	1,30575	359	1,30934	359
1,10	1,33100	363	1,33463	364	1,33827	365	1,34192	365	1,34557	366
1,11	1,36763	370	1,37133	371	1,37504	371	1,37875	372	1,38247	373
1,12	1,40493	376	1,40869	378	1,41247	378	1,41625	378	1,42003	380
1,13	1,44290	383	1,44673	384	1,45057	385	1,45442	385	1,45827	387
1,14	1,48154	391	1,48545	391	1,48936	391	1,49327	392	1,49719	393
1,15	1,52088	397	1,52485	397	1,52882	399	1,53281	399	1,53680	400
1,16	1,56090	404	1,56494	404	1,56898	406	1,57304	406	1,57710	407
1,17	1,60161	411	1,60572	412	1,60984	412	1,61396	414	1,61810	413
1,18	1,64303	418	1,64721	419	1,65140	420	1,65560	420	1,65980	421
1,19	1,68516	425	1,68941	426	1,69367	427	1,69794	427	1,70221	428
1,20	1,72800	432	1,73232	433	1,73665	434	1,74099	435	1,74534	435
1,21	1,77156	440	1,77596	440	1,78036	441	1,78477	442	1,78919	442
1,22	1,81585	447	1,82032	447	1,82479	449	1,82928	449	1,83377	450
1,23	1,86087	454	1,86541	455	1,86996	456	1,87452	456	1,87908	457
1,24	1,90662	462	1,91124	462	1,91586	464	1,92050	463	1,92513	465
1,25	1,95312	470	1,95782	470	1,96252	470	1,96722	472	1,97194	472
1,26	2,00038	476	2,00514	478	2,00992	478	2,01470	479	2,01949	479
1,27	2,04838	485	2,05323	485	2,05808	485	2,06293	487	2,06780	487
1,28	2,09715	492	2,10207	493	2,10700	493	2,11193	494	2,11687	495
1,29	2,14669	500	2,15169	500	2,15669	501	2,16170	502	2,16672	503
1,30	2,19700	507	2,20207	509	2,20716	509	2,21225	509	2,21734	511
1,31	2,24809	515	2,25324	516	2,25840	517	2,26357	518	2,26875	518
1,32	2,29997	523	2,30520	524	2,31044	525	2,31569	525	2,32094	526
1,33	2,35264	531	2,35795	532	2,36327	532	2,36859	534	2,37393	534
1,34	2,40610	539	2,41149	540	2,41689	541	2,42230	542	2,42772	542
1,35	2,46038	547	2,46585	548	2,47133	548	2,47681	550	2,48231	550
1,36	2,51546	555	2,52101	556	2,52657	557	2,53214	558	2,53772	558
1,37	2,57135	564	2,57699	564	2,58263	565	2,58828	566	2,59394	567
1,38	2,62807	572	2,63379	572	2,63951	574	2,64525	574	2,65099	575
1,39	2,68562	580	2,69142	581	2,69723	582	2,70305	582	2,70887	583
1,40	2,74400	588	2,74988	590	2,75578	590	2,76168	591	2,76759	592
1,41	2,80322	597	2,80919	598	2,81517	598	2,82115	600	2,82715	600
1,42	2,86329	605	2,86934	606	2,87540	607	2,88147	608	2,88755	609
1,43	2,92421	614	2,93035	614	2,93649	616	2,94265	616	2,94881	618
1,44	2,98598	623	2,99221	623	2,99844	625	3,00469	625	3,01094	626
1,45	3,04862	632	3,05494	632	3,06126	633	3,06759	633	3,07392	635
1,46	3,11214	640	3,11854	640	3,12494	642	3,13136	643	3,13779	643
1,47	3,17652	649	3,18301	650	3,18951	650	3,19601	651	3,20252	653
1,48	3,24179	658	3,24837	658	3,25495	660	3,26155	660	3,26815	661
1,49	3,30795	666	3,31461	668	3,32129	668	3,32797	669	3,33466	670

Błąd przybliżeń podanych na str. 108 i 109 jest nie większy niż 0,000005, a błąd przybliżenia otrzymanego przez interpolację liniową jest mniejszy niż 0,00000613 + błąd zaokrąglenia wyniku.

Przykład interpolacji na str. 120.

VII. Cubes (x^3)

5°	δ	6	δ	7	δ	8	δ	9	δ	x
1,01508	303	1,01811	304	1,02115	304	1,02419	305	1,02724	306	1,00
1,04568	309	1,04877	310	1,05187	311	1,05498	311	1,05809	312	1,01
1,07689	316	1,08005	316	1,08321	316	1,08637	318	1,08955	318	1,02
1,10872	321	1,11193	323	1,11516	323	1,11839	323	1,12162	324	1,03
1,14117	328	1,14445	328	1,14773	329	1,15102	330	1,15432	330	1,04
1,17424	334	1,17758	335	1,18093	336	1,18429	336	1,18765	337	1,05
1,20795	341	1,21136	341	1,21477	342	1,21819	342	1,22161	343	1,06
1,24230	347	1,24577	347	1,24924	349	1,25273	349	1,25622	349	1,07
1,27729	353	1,28082	355	1,28437	354	1,28791	356	1,29147	356	1,08
1,31293	360	1,31653	361	1,32014	361	1,32375	362	1,32737	363	1,09
1,34923	367	1,35290	367	1,35657	368	1,36025	369	1,36394	369	1,10
1,38620	373	1,38993	374	1,39367	375	1,39742	375	1,40117	376	1,11
1,42383	380	1,42763	381	1,43144	381	1,43525	382	1,43907	383	1,12
1,46214	386	1,46600	388	1,46988	388	1,47376	389	1,47765	389	1,13
1,50112	394	1,50506	394	1,50900	395	1,51295	396	1,51691	397	1,14
1,54080	400	1,54480	402	1,54882	402	1,55284	402	1,55686	404	1,15
1,58117	407	1,58524	408	1,58932	409	1,59341	410	1,59751	410	1,16
1,62223	415	1,62638	415	1,63053	416	1,63469	417	1,63886	417	1,17
1,66401	421	1,66822	423	1,67245	423	1,67668	423	1,68091	425	1,18
1,70649	429	1,71078	429	1,71507	430	1,71937	431	1,72368	432	1,19
1,74969	436	1,75405	437	1,75842	437	1,76279	438	1,76717	439	1,20
1,79361	444	1,79805	444	1,80249	444	1,80693	446	1,81139	446	1,21
1,83827	450	1,84277	451	1,84728	452	1,85180	453	1,85633	454	1,22
1,88365	458	1,88823	459	1,89282	459	1,89741	460	1,90201	461	1,23
1,92978	465	1,93443	467	1,93910	466	1,94376	468	1,94844	468	1,24
1,97666	473	1,98139	473	1,98612	475	1,99087	475	1,99562	476	1,25
2,02428	481	2,02909	481	2,03390	482	2,03872	483	2,04355	483	1,26
2,07267	488	2,07755	489	2,08244	490	2,08734	490	2,09224	491	1,27
2,12182	496	2,12678	497	2,13175	497	2,13672	498	2,14170	499	1,28
2,17175	503	2,17678	505	2,18183	505	2,18688	505	2,19193	507	1,29
2,22245	511	2,22756	512	2,23268	513	2,23781	514	2,24295	514	1,30
2,27393	519	2,27912	520	2,28432	521	2,28953	521	2,29474	523	1,31
2,32620	527	2,33147	528	2,33675	529	2,34204	529	2,34733	531	1,32
2,37927	535	2,38462	536	2,38998	537	2,39535	537	2,40072	538	1,33
2,43314	543	2,43857	544	2,44401	545	2,44946	545	2,45491	547	1,34
2,48781	552	2,49333	552	2,49885	552	2,50437	554	2,50991	555	1,35
2,54330	560	2,54890	560	2,55450	561	2,56011	562	2,56573	562	1,36
2,59961	568	2,60529	568	2,61097	569	2,61666	570	2,62236	571	1,37
2,65674	576	2,66250	577	2,66827	577	2,67404	579	2,67983	579	1,38
2,71470	585	2,72055	585	2,72640	586	2,73226	586	2,73812	588	1,39
2,77351	592	2,77943	594	2,78537	594	2,79131	595	2,79726	596	1,40
2,83315	601	2,83916	602	2,84518	603	2,85121	603	2,85724	605	1,41
2,89364	610	2,89974	610	2,90584	611	2,91195	613	2,91808	613	1,42
2,95499	618	2,96117	619	2,96736	620	2,97356	621	2,97977	621	1,43
3,01720	626	3,02346	628	3,02974	629	3,03603	629	3,04232	630	1,44
3,08027	636	3,08663	636	3,09299	637	3,09936	639	3,10575	639	1,45
3,14422	644	3,15066	645	3,15711	647	3,16358	646	3,17004	648	1,46
3,20905	653	3,21558	654	3,22212	655	3,22867	656	3,23523	656	1,47
3,27476	662	3,28138	663	3,28801	664	3,29465	664	3,30129	666	1,48
3,34136	671	3,34807	672	3,35479	673	3,36152	673	3,36825	675	1,49

The error of the approximations given on pp. 108 and 109 is not greater than 0,000005 and the error of an approximation obtained by linear interpolation is less than 0,00000613 + the error of rounding off the result.

An example of interpolation is given on p. 121.

VII. Sześciiany (x^3)

x	0	δ	1	δ	2	δ	3	δ	4	δ
1,50	3,37500	675	3,38175	677	3,38852	677	3,39529	678	3,40207	679
1,51	3,44295	685	3,44980	685	3,45665	686	3,46351	687	3,47038	689
1,52	3,51181	693	3,51874	695	3,52569	695	3,53264	697	3,53961	697
1,53	3,58158	702	3,58860	704	3,59564	705	3,60269	705	3,60974	707
1,54	3,65226	712	3,65938	713	3,66651	714	3,67365	715	3,68080	715
1,55	3,72388	721	3,73109	722	3,73831	723	3,74554	724	3,75278	725
1,56	3,79642	730	3,80372	732	3,81104	732	3,81836	733	3,82569	735
1,57	3,86989	740	3,87729	741	3,88470	742	3,89212	743	3,89955	743
1,58	3,94431	750	3,95181	750	3,95931	751	3,96682	752	3,97434	754
1,59	4,01968	759	4,02727	760	4,03487	760	4,04247	762	4,05009	763
1,60	4,09600	768	4,10368	770	4,11138	770	4,11908	772	4,12680	772
1,61	4,17328	778	4,18106	779	4,18885	780	4,19665	781	4,20446	782
1,62	4,25153	788	4,25941	788	4,26729	790	4,27519	791	4,28310	792
1,63	4,33075	797	4,33872	799	4,34671	799	4,35470	801	4,36271	801
1,64	4,41094	808	4,41902	808	4,42710	809	4,43519	811	4,44330	811
1,65	4,49212	818	4,50030	818	4,50848	819	4,51667	820	4,52487	822
1,66	4,57430	827	4,58257	828	4,59085	829	4,59914	830	4,60744	831
1,67	4,65746	837	4,66583	839	4,67422	839	4,68261	840	4,69101	841
1,68	4,74163	847	4,75010	849	4,75859	849	4,76708	850	4,77558	851
1,69	4,82681	857	4,83538	859	4,84397	859	4,85256	860	4,86116	862
1,70	4,91300	868	4,92168	868	4,93036	870	4,93906	870	4,94776	872
1,71	5,00021	878	5,00899	879	5,01778	879	5,02657	881	5,03538	882
1,72	5,08845	888	5,09733	889	5,10622	890	5,11512	891	5,12403	892
1,73	5,17772	898	5,18670	900	5,19570	900	5,20470	901	5,21371	903
1,74	5,26802	909	5,27711	910	5,28621	911	5,29532	912	5,30444	913
1,75	5,35938	919	5,36857	920	5,37777	921	5,38698	923	5,39621	923
1,76	5,45178	929	5,46107	931	5,47038	932	5,47970	933	5,48903	934
1,77	5,54523	941	5,55464	941	5,56405	943	5,57348	943	5,58291	945
1,78	5,63975	951	5,64926	952	5,65878	954	5,66832	954	5,67786	955
1,79	5,73534	962	5,74496	963	5,75459	963	5,76422	965	5,77387	966
1,80	5,83200	973	5,84173	973	5,85146	975	5,86121	976	5,87097	977
1,81	5,92974	983	5,93957	985	5,94942	985	5,95927	987	5,96914	988
1,82	6,0286	999	6,0385	100	6,0485	999	6,0584	100	6,0684	100
1,83	6,1285	100	6,1385	101	6,1486	101	6,1587	101	6,1688	101
1,84	6,2295	102	6,2397	101	6,2498	102	6,2600	102	6,2702	102
1,85	6,3316	103	6,3419	103	6,3522	103	6,3625	103	6,3728	103
1,86	6,4349	103	6,4452	104	6,4556	104	6,4660	105	6,4765	104
1,87	6,5392	105	6,5497	105	6,5602	105	6,5707	106	6,5813	105
1,88	6,6447	106	6,6553	106	6,6659	106	6,6765	107	6,6872	106
1,89	6,7513	107	6,7620	107	6,7727	108	6,7835	107	6,7942	108
1,90	6,8590	108	6,8698	109	6,8807	108	6,8915	109	6,9024	109
1,91	6,9679	109	6,9788	110	6,9898	110	7,0008	109	7,0117	110
1,92	7,0779	111	7,0890	110	7,1000	111	7,1111	111	7,1222	111
1,93	7,1891	111	7,2002	112	7,2114	112	7,2226	112	7,2338	113
1,94	7,3014	113	7,3127	113	7,3240	113	7,3353	113	7,3466	114
1,95	7,4149	114	7,4263	114	7,4377	115	7,4492	114	7,4606	115
1,96	7,5295	116	7,5411	115	7,5526	116	7,5642	115	7,5757	116
1,97	7,6454	116	7,6570	117	7,6687	117	7,6804	116	7,6920	117
1,98	7,7624	118	7,7742	117	7,7859	118	7,7977	118	7,8095	118
1,99	7,8806	119	7,8925	119	7,9044	119	7,9163	119	7,9282	119

Błąd przybliżeń podanych na str. 110 i 111 jest dla $1,50 \leq x < 1,82$ nie większy niż 0,000005, a dla $1,82 \leq x < 2,00$ nie większy niż 0,00005. Błąd przybliżenia otrzymanego przez interpolację liniową jest dla $1,50 < x < 1,82$ mniejszy niż 0,00000637 + błąd zaokrąglenia wyniku, a dla $1,82 < x < 2,00$ mniejszy niż 0,0000515 + błąd zaokrąglenia wyniku.

Przykład interpolacji na str. 120.

VII. Cubes (x^3)

5	δ	6	δ	7	δ	8	δ	9	δ	x
3,40886	680	3,41566	681	3,42247	682	3,42929	683	3,43612	683	1,50
3,47727	689	3,48416	690	3,49106	690	3,49796	692	3,50488	693	1,51
3,54658	698	3,55356	699	3,56055	700	3,56755	701	3,57456	702	1,52
3,61681	707	3,62388	708	3,63096	709	3,63805	710	3,64515	711	1,53
3,68795	717	3,69512	717	3,70229	719	3,70948	719	3,71667	721	1,54
3,76003	726	3,76729	727	3,77456	727	3,78183	729	3,78912	730	1,55
3,83304	735	3,84039	736	3,84775	737	3,85512	738	3,86250	739	1,56
3,90698	745	3,91443	746	3,92189	746	3,92935	748	3,93683	748	1,57
3,98188	754	3,98942	755	3,99697	756	4,00453	757	4,01210	758	1,58
4,05772	764	4,06536	764	4,07300	766	4,08066	766	4,08832	768	1,59
4,13452	773	4,14225	775	4,15000	775	4,15775	776	4,16551	777	1,60
4,21228	783	4,22011	784	4,22795	785	4,23580	786	4,24366	787	1,61
4,29102	792	4,29894	794	4,30688	795	4,31483	795	4,32278	797	1,62
4,37072	803	4,37875	803	4,38678	805	4,39483	805	4,40288	806	1,63
4,45141	812	4,45953	814	4,46767	814	4,47581	815	4,48396	816	1,64
4,53309	822	4,54131	823	4,54954	824	4,55778	825	4,56603	827	1,65
4,61575	833	4,62408	833	4,63241	834	4,64075	835	4,64910	836	1,66
4,69942	842	4,70784	844	4,71628	844	4,72472	845	4,73317	846	1,67
4,78409	853	4,79262	853	4,80115	854	4,80969	856	4,81825	856	1,68
4,86978	862	4,87840	864	4,88704	864	4,89568	866	4,90434	866	1,69
4,95648	872	4,96520	874	4,97394	875	4,98269	875	4,99144	877	1,70
5,04420	883	5,05303	884	5,06187	885	5,07072	886	5,07958	887	1,71
5,13295	894	5,14189	894	5,15083	895	5,15978	896	5,16874	898	1,72
5,22274	904	5,23178	904	5,24082	906	5,24988	907	5,25895	907	1,73
5,31357	914	5,32271	915	5,33186	916	5,34102	917	5,35019	919	1,74
5,40544	925	5,41469	926	5,42395	926	5,43321	928	5,44249	929	1,75
5,49837	935	5,50772	936	5,51708	938	5,52646	938	5,53584	939	1,76
5,59236	946	5,60182	946	5,61128	948	5,62076	949	5,63025	950	1,77
5,68741	957	5,69698	957	5,70655	959	5,71614	959	5,72573	961	1,78
5,78353	968	5,79321	968	5,80289	969	5,81258	971	5,82229	971	1,79
5,88074	977	5,89051	979	5,90030	981	5,91011	981	5,91992	982	1,80
5,97902	989	5,98891	990	5,99881	991	6,00872	992	6,01864	993	1,81
6,0784	100	6,0884	100	6,0984	100	6,1084	100	6,1184	101	1,82
6,1789	101	6,1890	101	6,1991	101	6,2092	102	6,2194	101	1,83
6,2804	102	6,2906	103	6,3009	102	6,3111	103	6,3214	102	1,84
6,3831	103	6,3934	104	6,4038	103	6,4141	104	6,4245	104	1,85
6,4869	104	6,4973	105	6,5078	104	6,5182	105	6,5287	105	1,86
6,5918	105	6,6023	106	6,6129	106	6,6235	106	6,6341	106	1,87
6,6978	107	6,7085	107	6,7192	107	6,7299	107	6,7406	107	1,88
6,8050	108	6,8158	108	6,8266	108	6,8374	108	6,8482	108	1,89
6,9133	109	6,9242	109	6,9351	109	6,9460	109	6,9569	110	1,90
7,0227	110	7,0337	111	7,0448	110	7,0558	110	7,0668	111	1,91
7,1333	112	7,1445	111	7,1556	111	7,1667	112	7,1779	112	1,92
7,2451	112	7,2563	113	7,2676	112	7,2788	113	7,2901	113	1,93
7,3580	113	7,3693	114	7,3807	114	7,3921	114	7,4035	114	1,94
7,4721	114	7,4835	115	7,4950	115	7,5065	115	7,5180	115	1,95
7,5873	116	7,5989	116	7,6105	116	7,6221	116	7,6337	117	1,96
7,7037	117	7,7154	118	7,7272	117	7,7389	117	7,7506	118	1,97
7,8213	119	7,8332	118	7,8450	119	7,8569	118	7,8687	119	1,98
7,9401	120	7,9521	120	7,9641	119	7,9760	120	7,9880	120	1,99

The error of the approximations given on pp. 110 and 111 is for $1,50 \leq x < 1,82$ not greater than 0,000005 and for $1,82 \leq x < 2,00$ not greater than 0,00005. The error of an approximation obtained by linear interpolation is for $1,50 < x < 1,82$ less than 0,00000637 + the error of rounding off the result and for $1,82 < x < 2,00$ less than 0,0000515 + the error of rounding off the result.

An example of interpolation is given on p. 121.

VII. Sześciany (x^3)

x	0	δ	1	δ	2	δ	3	δ	4	δ
2,00	8,0000	120	8,0120	120	8,0240	121	8,0361	120	8,0481	121
2,01	8,1206	121	8,1327	122	8,1449	121	8,1570	122	8,1692	122
2,02	8,2424	123	8,2547	122	8,2669	123	8,2792	123	8,2915	123
2,03	8,3654	124	8,3778	124	8,3902	124	8,4026	124	8,4150	124
2,04	8,4897	125	8,5022	125	8,5147	125	8,5272	125	8,5397	125
2,05	8,6151	126	8,6277	127	8,6404	126	8,6530	127	8,6657	126
2,06	8,7418	128	8,7546	127	8,7673	128	8,7801	127	8,7928	128
2,07	8,8697	129	8,8826	129	8,8955	129	8,9084	129	8,9213	129
2,08	8,9989	130	9,0119	130	9,0249	130	9,0379	130	9,0509	131
2,09	9,1293	131	9,1424	132	9,1556	131	9,1687	131	9,1818	132
2,10	9,2610	132	9,2742	133	9,2875	132	9,3007	133	9,3140	133
2,11	9,3939	134	9,4073	134	9,4207	134	9,4341	134	9,4475	134
2,12	9,5281	135	9,5416	135	9,5551	135	9,5686	136	9,5822	135
2,13	9,6636	136	9,6772	136	9,6908	137	9,7045	136	9,7181	137
2,14	9,8003	138	9,8141	137	9,8278	138	9,8416	138	9,8554	138
2,15	9,9384	138	9,9522	139	9,9661	139	9,9800	139	9,9939	140
2,16	10,0777	140	10,0917	140	10,1057	140	10,1197	141	10,1338	140
2,17	10,2183	141	10,2324	142	10,2466	142	10,2608	141	10,2749	142
2,18	10,3602	143	10,3745	143	10,3888	143	10,4031	143	10,4174	143
2,19	10,5035	144	10,5179	144	10,5323	144	10,5467	144	10,5611	145
2,20	10,6480	145	10,6625	146	10,6771	145	10,6916	146	10,7062	146
2,21	10,7939	146	10,8085	147	10,8232	147	10,8379	147	10,8526	147
2,22	10,9410	148	10,9558	148	10,9706	149	10,9855	148	11,0003	148
2,23	11,0896	149	11,1045	149	11,1194	150	11,1344	149	11,1493	150
2,24	11,2394	151	11,2545	151	11,2696	150	11,2846	151	11,2997	152
2,25	11,3906	152	11,4058	152	11,4210	152	11,4362	153	11,4515	152
2,26	11,5432	153	11,5585	153	11,5738	154	11,5892	154	11,6046	154
2,27	11,6971	154	11,7125	155	11,7280	155	11,7435	155	11,7590	155
2,28	11,8524	156	11,8680	156	11,8836	156	11,8992	156	11,9148	157
2,29	12,0090	157	12,0247	158	12,0405	157	12,0562	158	12,0720	158
2,30	12,1670	159	12,1829	159	12,1988	159	12,2147	159	12,2306	159
2,31	12,3264	160	12,3424	160	12,3584	161	12,3745	160	12,3905	161
2,32	12,4872	161	12,5033	162	12,5195	162	12,5357	162	12,5519	162
2,33	12,6493	163	12,6656	163	12,6819	164	12,6983	163	12,7146	163
2,34	12,8129	164	12,8293	165	12,8458	164	12,8622	165	12,8787	165
2,35	12,9779	165	12,9944	166	13,0110	166	13,0276	167	13,0443	166
2,36	13,1443	167	13,1610	167	13,1777	167	13,1944	168	13,2112	168
2,37	13,3121	168	13,3289	169	13,3458	169	13,3627	169	13,3796	169
2,38	13,4813	170	13,4983	170	13,5153	170	13,5323	171	13,5494	170
2,39	13,6519	172	13,6691	171	13,6862	172	13,7034	172	13,7206	172
2,40	13,8240	173	13,8413	173	13,8586	173	13,8759	173	13,8932	174
2,41	13,9975	175	14,0150	174	14,0324	175	14,0499	174	14,0673	175
2,42	14,1725	176	14,1901	176	14,2077	176	14,2253	176	14,2429	176
2,43	14,3489	177	14,3666	178	14,3844	177	14,4021	178	14,4199	178
2,44	14,5268	179	14,5447	178	14,5625	179	14,5804	179	14,5983	180
2,45	14,7061	180	14,7241	181	14,7422	180	14,7602	181	14,7783	180
2,46	14,8869	182	14,9051	182	14,9233	182	14,9415	182	14,9597	182
2,47	15,0692	183	15,0875	184	15,1059	183	15,1242	184	15,1426	183
2,48	15,2530	185	15,2715	184	15,2899	185	15,3084	185	15,3269	185
2,49	15,4382	187	15,4569	186	15,4755	186	15,4941	187	15,5128	186

Błąd przybliżeń podanych na str. 112 i 113 jest nie większy niż 0,00005, a błąd przybliżenia otrzymanego przez interpolację liniową jest mniejszy niż 0,0000519 + błąd zaokrąglenia wyniku.

Przykład interpolacji na str. 120.

VII. Cubes (x^3)

5	δ	6	δ	7	δ	8	δ	9	δ	x
8,0602	120	8,0722	121	8,0843	121	8,0964	121	8,1085	121	2,00
8,1814	121	8,1935	122	8,2057	122	8,2179	123	8,2302	122	2,01
8,3038	123	8,3161	123	8,3284	123	8,3407	124	8,3531	123	2,02
8,4274	124	8,4398	125	8,4523	124	8,4647	125	8,4772	125	2,03
8,5522	126	8,5648	126	8,5774	125	8,5899	126	8,6025	126	2,04
8,6783	127	8,6910	127	8,7037	127	8,7164	127	8,7291	127	2,05
8,8056	128	8,8184	128	8,8312	129	8,8441	128	8,8569	128	2,06
8,9342	129	8,9471	129	8,9600	130	8,9730	129	8,9859	130	2,07
9,0640	130	9,0770	131	9,0901	130	9,1031	131	9,1162	131	2,08
9,1950	132	9,2082	132	9,2214	132	9,2346	132	9,2478	132	2,09
9,3273	133	9,3406	133	9,3539	133	9,3672	134	9,3806	133	2,10
9,4609	134	9,4743	134	9,4877	135	9,5012	135	9,5147	134	2,11
9,5957	136	9,6093	135	9,6228	136	9,6364	136	9,6500	136	2,12
9,7318	137	9,7455	137	9,7592	137	9,7729	137	9,7866	137	2,13
9,8692	138	9,8830	138	9,8968	139	9,9107	138	9,9245	139	2,14
10,0079	139	10,0218	140	10,0358	139	10,0497	140	10,0637	140	2,15
10,1478	141	10,1619	141	10,1760	141	10,1901	141	10,2042	141	2,16
10,2891	142	10,3033	142	10,3175	142	10,3317	143	10,3460	142	2,17
10,4317	143	10,4460	144	10,4604	143	10,4747	144	10,4891	144	2,18
10,5756	144	10,5900	145	10,6045	145	10,6190	145	10,6335	145	2,19
10,7208	146	10,7354	146	10,7500	146	10,7646	146	10,7792	147	2,20
10,8673	147	10,8820	148	10,8968	147	10,9115	148	10,9263	147	2,21
11,0151	149	11,0300	149	11,0449	149	11,0598	149	11,0747	149	2,22
11,1643	150	11,1793	150	11,1943	150	11,2093	151	11,2244	150	2,23
11,3149	151	11,3300	151	11,3451	152	11,3603	151	11,3754	152	2,24
11,4667	153	11,4820	153	11,4973	153	11,5126	153	11,5279	153	2,25
11,6200	154	11,6354	154	11,6508	154	11,6662	154	11,6816	155	2,26
11,7745	156	11,7901	155	11,8056	156	11,8212	156	11,8368	156	2,27
11,9305	157	11,9462	157	11,9619	157	11,9776	157	11,9933	157	2,28
12,0878	158	12,1036	159	12,1195	158	12,1353	158	12,1511	159	2,29
12,2465	160	12,2625	159	12,2784	160	12,2944	160	12,3104	160	2,30
12,4066	161	12,4227	161	12,4388	161	12,4549	161	12,4710	162	2,31
12,5681	162	12,5843	162	12,6005	163	12,6168	163	12,6331	162	2,32
12,7309	164	12,7473	164	12,7637	164	12,7801	164	12,7965	164	2,33
12,8952	165	12,9117	165	12,9282	166	12,9448	165	12,9613	166	2,34
13,0609	166	13,0775	167	13,0942	167	13,1109	167	13,1276	167	2,35
13,2280	168	13,2448	168	13,2616	168	13,2784	168	13,2952	169	2,36
13,3965	169	13,4134	170	13,4304	169	13,4473	170	13,4643	170	2,37
13,5664	171	13,5835	171	13,6006	171	13,6177	171	13,6348	171	2,38
13,7378	172	13,7550	172	13,7722	173	13,7895	172	13,8067	173	2,39
13,9106	173	13,9279	174	13,9453	174	13,9627	174	13,9801	174	2,40
14,0848	175	14,1023	175	14,1198	176	14,1374	175	14,1549	176	2,41
14,2605	177	14,2782	176	14,2958	177	14,3135	177	14,3312	177	2,42
14,4377	178	14,4555	178	14,4733	178	14,4911	178	14,5089	179	2,43
14,6163	179	14,6342	180	14,6522	179	14,6701	180	14,6881	180	2,44
14,7963	181	14,8144	181	14,8325	182	14,8507	181	14,8688	181	2,45
14,9779	182	14,9961	183	15,0144	182	15,0326	183	15,0509	183	2,46
15,1609	184	15,1793	184	15,1977	184	15,2161	184	15,2345	185	2,47
15,3454	186	15,3640	185	15,3825	186	15,4011	186	15,4197	185	2,48
15,5314	187	15,5501	187	15,5688	187	15,5875	188	15,6063	187	2,49

The error of the approximations given on pp. 112 and 113 is not greater than 0,00005 and the error of an approximation obtained by linear interpolation is less than 0,0000519 + the error of rounding off the result.

An example of interpolation is given on p. 121.

VII. Sześciiany (x^3)

x	0	δ	1	δ	2	δ	3	δ	4	δ
2,50	15,6250	188	15,6438	187	15,6625	188	15,6813	188	15,7001	188
2,51	15,8133	189	15,8322	189	15,8511	189	15,8700	190	15,8890	189
2,52	16,0030	191	16,0221	190	16,0411	191	16,0602	191	16,0793	192
2,53	16,1943	192	16,2135	192	16,2327	193	16,2520	192	16,2712	193
2,54	16,3871	193	16,4064	194	16,4258	194	16,4452	194	16,4646	194
2,55	16,5814	195	16,6009	195	16,6204	196	16,6400	195	16,6595	196
2,56	16,7772	197	16,7969	197	16,8166	197	16,8363	197	16,8560	197
2,57	16,9746	198	16,9944	199	17,0143	198	17,0341	199	17,0540	199
2,58	17,1735	200	17,1935	200	17,2135	200	17,2335	200	17,2535	201
2,59	17,3740	201	17,3941	202	17,4143	201	17,4344	202	17,4546	202
2,60	17,5760	203	17,5963	203	17,6166	203	17,6369	203	17,6572	204
2,61	17,7796	204	17,8000	205	17,8205	205	17,8410	205	17,8615	205
2,62	17,9847	206	18,0053	206	18,0259	207	18,0466	206	18,0672	207
2,63	18,1914	208	18,2122	208	18,2330	208	18,2538	208	18,2746	208
2,64	18,3997	210	18,4207	209	18,4416	209	18,4625	210	18,4835	210
2,65	18,6096	211	18,6307	211	18,6518	211	18,6729	211	18,6940	212
2,66	18,8211	212	18,8423	213	18,8636	212	18,8848	213	18,9061	213
2,67	19,0342	214	19,0556	214	19,0770	214	19,0984	214	19,1198	215
2,68	19,2488	216	19,2704	216	19,2920	215	19,3135	216	19,3351	217
2,69	19,4651	217	19,4868	218	19,5086	217	19,5303	218	19,5521	218
2,70	19,6830	219	19,7049	219	19,7268	219	19,7487	219	19,7706	220
2,71	19,9025	221	19,9246	220	19,9466	221	19,9687	221	19,9908	221
2,72	20,1236	223	20,1459	222	20,1681	222	20,1903	223	20,2126	222
2,73	20,3464	224	20,3688	224	20,3912	224	20,4136	224	20,4360	224
2,74	20,5708	226	20,5934	225	20,6159	226	20,6385	225	20,6610	226
2,75	20,7969	227	20,8196	227	20,8423	227	20,8650	228	20,8878	227
2,76	21,0246	228	21,0474	229	21,0703	229	21,0932	229	21,1161	229
2,77	21,2539	231	21,2770	230	21,3000	231	21,3231	230	21,3461	231
2,78	21,4850	231	21,5081	233	21,5314	232	21,5546	232	21,5778	233
2,79	21,7176	234	21,7410	234	21,7644	234	21,7878	234	21,8112	234
2,80	21,9520	235	21,9755	236	21,9991	235	22,0226	236	22,0462	236
2,81	22,1880	237	22,2117	238	22,2355	237	22,2592	237	22,2829	238
2,82	22,4258	238	22,4496	239	22,4735	239	22,4974	239	22,5213	240
2,83	22,6652	240	22,6892	241	22,7133	240	22,7373	241	22,7614	241
2,84	22,9063	242	22,9305	242	22,9547	243	22,9790	242	23,0032	243
2,85	23,1491	244	23,1735	244	23,1979	244	23,2223	244	23,2467	245
2,86	23,3937	245	23,4182	246	23,4428	245	23,4673	246	23,4919	247
2,87	23,6399	247	23,6646	248	23,6894	247	23,7141	248	23,7389	248
2,88	23,8879	249	23,9128	249	23,9377	249	23,9626	249	23,9875	250
2,89	24,1376	250	24,1626	251	24,1877	251	24,2128	251	24,2379	252
2,90	24,3890	252	24,4142	253	24,4395	253	24,4648	253	24,4901	253
2,91	24,6422	254	24,6676	254	24,6930	255	24,7185	254	24,7439	255
2,92	24,8971	256	24,9227	256	24,9483	256	24,9739	256	24,9995	257
2,93	25,1538	257	25,1795	258	25,2053	258	25,2311	258	25,2569	259
2,94	25,4122	259	25,4381	260	25,4641	260	25,4901	259	25,5160	261
2,95	25,6724	261	25,6985	261	25,7246	262	25,7508	261	25,7769	262
2,96	25,9343	263	25,9606	263	25,9869	264	26,0133	263	26,0396	264
2,97	26,1981	264	26,2245	265	26,2510	265	26,2775	266	26,3041	265
2,98	26,4636	266	26,4902	267	26,5169	267	26,5436	267	26,5703	267
2,99	26,7309	268	26,7577	269	26,7846	268	26,8114	269	26,8383	269

Błąd przybliżeń podanych na str. 114 i 115 jest nie większy niż 0,00005, a błąd przybliżenia otrzymanego przez interpolację liniową jest mniejszy niż 0,0000523 + błąd zaokrąglenia wyniku

Przykład interpolacji na str. 120.

VII. Cubes (x^3)

5	δ	6	δ	7	δ	8	δ	9	δ	x
15,7189	189	15,7378	188	15,7566	189	15,7755	189	15,7944	189	2,50
15,9079	190	15,9269	190	15,9459	190	15,9649	191	15,9840	190	2,51
16,0985	191	16,1176	191	16,1367	192	16,1559	192	16,1751	192	2,52
16,2905	193	16,3098	193	16,3291	193	16,3484	193	16,3677	194	2,53
16,4840	195	16,5035	194	16,5229	195	16,5424	195	16,5619	195	2,54
16,6791	196	16,6987	196	16,7183	196	16,7379	197	16,7576	196	2,55
16,8757	198	16,8955	197	16,9152	198	16,9350	198	16,9548	198	2,56
17,0739	199	17,0938	199	17,1137	199	17,1336	200	17,1536	199	2,57
17,2736	200	17,2936	201	17,3137	201	17,3338	201	17,3539	201	2,58
17,4748	202	17,4950	202	17,5152	203	17,5355	202	17,5557	203	2,59
17,6776	204	17,6980	203	17,7183	204	17,7387	205	17,7592	204	2,60
17,8820	205	17,9025	205	17,9230	206	17,9436	205	17,9641	206	2,61
18,0879	207	18,1086	207	18,1293	207	18,1500	207	18,1707	207	2,62
18,2954	208	18,3162	209	18,3371	209	18,3580	208	18,3788	209	2,63
18,5045	210	18,5255	210	18,5465	210	18,5675	211	18,5886	210	2,64
18,7152	211	18,7363	212	18,7575	212	18,7787	212	18,7999	212	2,65
18,9274	213	18,9487	214	18,9701	213	18,9914	214	19,0128	214	2,66
19,1413	215	19,1628	215	19,1843	215	19,2058	215	19,2273	215	2,67
19,3568	216	19,3784	217	19,4001	216	19,4217	217	19,4434	217	2,68
19,5739	217	19,5956	219	19,6175	218	19,6393	218	19,6611	219	2,69
19,7926	219	19,8145	220	19,8365	220	19,8585	220	19,8805	220	2,70
20,0129	221	20,0350	221	20,0571	222	20,0793	222	20,1015	221	2,71
20,2348	223	20,2571	223	20,2794	223	20,3017	224	20,3241	223	2,72
20,4584	225	20,4809	224	20,5033	225	20,5258	225	20,5483	225	2,73
20,6836	227	20,7063	226	20,7289	226	20,7515	227	20,7742	227	2,74
20,9105	228	20,9333	228	20,9561	228	20,9789	228	21,0017	229	2,75
21,1390	230	21,1620	230	21,1850	229	21,2079	230	21,2309	230	2,76
21,3692	231	21,3923	232	21,4155	231	21,4386	232	21,4618	232	2,77
21,6011	233	21,6244	233	21,6477	233	21,6710	233	21,6943	233	2,78
21,8346	235	21,8581	234	21,8815	235	21,9050	235	21,9285	235	2,79
22,0698	236	22,0934	237	22,1171	236	22,1407	237	22,1644	236	2,80
22,3067	238	22,3305	238	22,3543	238	22,3781	238	22,4019	239	2,81
22,5453	239	22,5692	240	22,5932	240	22,6172	240	22,6412	240	2,82
22,7855	242	22,8097	241	22,8338	241	22,8579	242	22,8821	242	2,83
23,0275	243	23,0518	243	23,0761	243	23,1004	244	23,1248	243	2,84
23,2712	244	23,2956	245	23,3201	245	23,3446	245	23,3691	246	2,85
23,5166	246	23,5412	246	23,5658	247	23,5905	247	23,6152	247	2,86
23,7637	248	23,7885	248	23,8133	248	23,8381	249	23,8630	249	2,87
24,0125	250	24,0375	250	24,0625	250	24,0875	250	24,1125	251	2,88
24,2631	251	24,2882	252	24,3134	252	24,3386	252	24,3638	252	2,89
24,5154	253	24,5407	253	24,5660	254	24,5914	254	24,6168	254	2,90
24,7694	255	24,7949	255	24,8204	256	24,8460	255	24,8715	256	2,91
25,0252	257	25,0509	257	25,0766	257	25,1023	257	25,1280	258	2,92
25,2828	258	25,3086	259	25,3345	259	25,3604	259	25,3863	259	2,93
25,5421	260	25,5681	260	25,5941	261	25,6202	261	25,6463	261	2,94
25,8031	262	25,8293	263	25,8556	262	25,8818	263	25,9081	262	2,95
26,0660	264	26,0924	264	26,1188	264	26,1452	264	26,1716	265	2,96
26,3306	266	26,3572	265	26,3837	266	26,4103	267	26,4370	266	2,97
26,5970	268	26,6238	267	26,6505	268	26,6773	268	26,7041	268	2,98
26,8652	269	26,8921	270	26,9191	269	26,9460	270	26,9730	270	2,99

The error of the approximations given on pp. 114 and 115 is not greater than 0,00005 and the error of an approximation obtained by linear interpolation is less than 0,0000523 + the error of rounding off the result.

An example of interpolation is given on p. 121.

VII. Sześciiany (x^3)

x	0	δ	1	δ	2	δ	3	δ	4	δ
3,00	27,0000	270	27,0270	270	27,0540	271	27,0811	270	27,1081	271
3,01	27,2709	272	27,2981	272	27,3253	272	27,3525	273	27,3798	272
3,02	27,5436	274	27,5710	274	27,5984	274	27,6258	274	27,6532	274
3,03	27,8181	276	27,8457	275	27,8732	276	27,9008	276	27,9284	277
3,04	28,0945	277	28,1222	278	28,1500	277	28,1777	278	28,2055	278
3,05	28,3726	279	28,4005	280	28,4285	279	28,4564	280	28,4844	280
3,06	28,6526	281	28,6807	281	28,7088	282	28,7370	281	28,7651	282
3,07	28,9344	283	28,9627	283	28,9910	284	29,0194	283	29,0477	283
3,08	29,2181	285	29,2466	285	29,2751	285	29,3036	285	29,3321	285
3,09	29,5036	287	29,5323	287	29,5610	286	29,5896	288	29,6184	287
3,10	29,7910	288	29,8198	289	29,8487	289	29,8776	289	29,9065	289
3,11	30,0802	291	30,1093	290	30,1383	291	30,1674	290	30,1964	291
3,12	30,3713	292	30,4005	293	30,4298	292	30,4590	293	30,4883	293
3,13	30,6643	294	30,6937	294	30,7231	295	30,7526	294	30,7820	295
3,14	30,9591	296	30,9887	296	31,0183	297	31,0480	296	31,0776	297
3,15	31,2559	298	31,2857	297	31,3154	299	31,3453	298	31,3751	298
3,16	31,5545	300	31,5845	299	31,6144	301	31,6445	300	31,6745	300
3,17	31,8550	302	31,8852	301	31,9153	302	31,9455	303	31,9758	302
3,18	32,1574	304	32,1878	303	32,2181	304	32,2485	304	32,2789	305
3,19	32,4618	305	32,4923	306	32,5229	305	32,5534	306	32,5840	306
3,20	32,7680	307	32,7987	308	32,8295	307	32,8602	308	32,8910	308
3,21	33,0762	309	33,1071	309	33,1380	310	33,1690	310	33,2000	310
3,22	33,3862	312	33,4174	311	33,4485	312	33,4797	311	33,5108	312
3,23	33,6983	313	33,7296	313	33,7609	314	33,7923	313	33,8236	314
3,24	34,0122	315	34,0437	315	34,0752	316	34,1068	316	34,1384	315
3,25	34,3281	317	34,3598	317	34,3915	318	34,4233	317	34,4550	318
3,26	34,6460	319	34,6779	319	34,7098	319	34,7417	320	34,7737	319
3,27	34,9658	321	34,9979	321	35,0300	321	35,0621	322	35,0943	321
3,28	35,2876	322	35,3198	323	35,3521	324	35,3845	323	35,4168	324
3,29	35,6113	325	35,6438	325	35,6763	325	35,7088	325	35,7413	326
3,30	35,9370	327	35,9697	327	36,0024	327	36,0351	327	36,0678	328
3,31	36,2647	329	36,2976	329	36,3305	329	36,3634	329	36,3963	330
3,32	36,5944	330	36,6274	331	36,6605	332	36,6937	331	36,7268	332
3,33	36,9260	333	36,9593	333	36,9926	333	37,0259	334	37,0593	333
3,34	37,2597	335	37,2932	335	37,3267	335	37,3602	335	37,3937	336
3,35	37,5954	337	37,6291	337	37,6628	337	37,6965	337	37,7302	338
3,36	37,9331	338	37,9669	339	38,0008	340	38,0348	339	38,0687	340
3,37	38,2728	340	38,3068	341	38,3409	342	38,3751	341	38,4092	342
3,38	38,6145	343	38,6488	343	38,6831	343	38,7174	343	38,7517	344
3,39	38,9582	345	38,9927	345	39,0272	345	39,0617	346	39,0963	346
3,40	39,3040	347	39,3387	347	39,3734	347	39,4081	348	39,4429	348
3,41	39,6518	349	39,6867	349	39,7216	350	39,7566	349	39,7915	350
3,42	40,0017	351	40,0368	351	40,0719	351	40,1070	352	40,1422	352
3,43	40,3536	353	40,3889	353	40,4242	354	40,4596	354	40,4950	353
3,44	40,7076	355	40,7431	355	40,7786	356	40,8142	356	40,8498	355
3,45	41,0636	357	41,0993	358	41,1351	357	41,1708	358	41,2066	358
3,46	41,4217	360	41,4577	359	41,4936	360	41,5296	360	41,5656	360
3,47	41,7819	362	41,8181	361	41,8542	362	41,8904	362	41,9266	362
3,48	42,1442	363	42,1805	364	42,2169	364	42,2533	364	42,2897	364
3,49	42,5085	366	42,5451	366	42,5817	366	42,6183	366	42,6549	366

Błąd przybliżeń podanych na str. 116 i 117 jest nie większy niż 0,00005, a błąd przybliżenia otrzymanego przez interpolację liniową jest mniejszy niż 0,0000527 + błąd zaokrąglenia wyniku.

Przykład interpolacji na str. 120.

VII. Cubes (x^3)

5	δ	6	δ	7	δ	8	δ	9	δ	x
27,1352	271	27,1623	271	27,1894	272	27,2166	271	27,2437	272	3,00
27,4070	273	27,4343	273	27,4616	273	27,4889	274	27,5163	273	3,01
27,6806	275	27,7081	275	27,7356	275	27,7631	275	27,7906	275	3,02
27,9561	276	27,9837	277	28,0114	277	28,0391	276	28,0667	278	3,03
28,2333	278	28,2611	279	28,2890	278	28,3168	279	28,3447	279	3,04
28,5124	280	28,5404	280	28,5684	281	28,5965	280	28,6245	281	3,05
28,7933	282	28,8215	282	28,8497	282	28,8779	283	28,9062	282	3,06
29,0760	284	29,1044	284	29,1328	284	29,1612	285	29,1897	284	3,07
29,3606	286	29,3892	286	29,4178	286	29,4464	286	29,4750	286	3,08
29,6471	287	29,6758	288	29,7046	288	29,7334	288	29,7622	288	3,09
29,9354	289	29,9643	290	29,9933	289	30,0222	290	30,0512	290	3,10
30,2255	292	30,2547	291	30,2838	292	30,3130	291	30,3421	292	3,11
30,5176	293	30,5469	293	30,5762	294	30,6056	293	30,6349	294	3,12
30,8115	295	30,8410	295	30,8705	295	30,9000	296	30,9296	295	3,13
31,1073	297	31,1370	297	31,1667	297	31,1964	297	31,2261	298	3,14
31,4049	299	31,4348	299	31,4647	299	31,4946	299	31,5245	300	3,15
31,7045	301	31,7346	301	31,7647	301	31,7948	301	31,8249	301	3,16
32,0060	302	32,0362	303	32,0665	303	32,0968	303	32,1271	303	3,17
32,3094	304	32,3398	305	32,3703	304	32,4007	305	32,4312	306	3,18
32,6146	307	32,6453	306	32,6759	307	32,7066	307	32,7373	307	3,19
32,9218	309	32,9527	308	32,9835	309	33,0144	309	33,0453	309	3,20
33,2310	310	33,2620	310	33,2930	311	33,3241	311	33,3552	310	3,21
33,5420	312	33,5732	313	33,6045	312	33,6357	313	33,6670	313	3,22
33,8550	314	33,8864	314	33,9178	315	33,9493	314	33,9807	315	3,23
34,1699	316	34,2015	317	34,2332	316	34,2648	316	34,2964	317	3,24
34,4868	318	34,5186	318	34,5504	318	34,5822	319	34,6141	319	3,25
34,8056	320	34,8376	320	34,8696	321	34,9017	320	34,9337	321	3,26
35,1264	322	35,1586	322	35,1908	322	35,2230	323	35,2553	323	3,27
35,4492	324	35,4816	324	35,5140	324	35,5464	324	35,5788	325	3,28
35,7739	326	35,8065	326	35,8391	326	35,8717	326	35,9043	327	3,29
36,1006	328	36,1334	328	36,1662	328	36,1990	328	36,2318	329	3,30
36,4293	330	36,4623	330	36,4953	330	36,5283	330	36,5613	331	3,31
36,7600	331	36,7931	332	36,8263	332	36,8595	333	36,8928	332	3,32
37,0926	334	37,1260	334	37,1594	334	37,1928	334	37,2262	335	3,33
37,4273	336	37,4609	336	37,4945	336	37,5281	336	37,5617	337	3,34
37,7640	337	37,7977	338	37,8315	339	37,8654	338	37,8992	339	3,35
38,1027	339	38,1366	340	38,1706	341	38,2047	340	38,2387	341	3,36
38,4434	341	38,4775	342	38,5117	343	38,5460	342	38,5802	343	3,37
38,7861	344	38,8205	344	38,8549	344	38,8893	345	38,9238	344	3,38
39,1309	345	39,1654	347	39,2001	346	39,2347	346	39,2693	347	3,39
39,4777	347	39,5124	349	39,5473	348	39,5821	348	39,6169	349	3,40
39,8265	350	39,8615	350	39,8965	351	39,9316	350	39,9666	351	3,41
40,1774	352	40,2126	352	40,2478	353	40,2831	352	40,3183	353	3,42
40,5303	354	40,5657	355	40,6012	354	40,6366	355	40,6721	355	3,43
40,8853	357	40,9210	356	40,9566	357	40,9923	356	41,0279	357	3,44
41,2424	358	41,2782	359	41,3141	358	41,3499	359	41,3858	359	3,45
41,6016	360	41,6376	360	41,6736	361	41,7097	361	41,7458	361	3,46
41,9628	362	41,9990	363	42,0353	363	42,0716	363	42,1079	363	3,47
42,3261	365	42,3626	364	42,3990	365	42,4355	365	42,4720	365	3,48
42,6915	367	42,7282	366	42,7648	367	42,8015	368	42,8383	367	3,49

x^3

The error of the approximations given on pp. 116 and 117 is not greater than 0,00005 and the error of an approximation obtained by linear interpolation is less than 0,0000527 + the error of rounding off the result

An example of interpolation is given on p. 121.

VII. Sześciiany (x^3)

x	0	δ	1	δ	2	δ	3	δ	4	δ
3,50	42,8750	368	42,9118	367	42,9485	368	42,9853	369	43,0222	368
3,51	43,2436	369	43,2805	370	43,3175	370	43,3545	371	43,3916	370
3,52	43,6142	372	43,6514	372	43,6886	372	43,7258	373	43,7631	372
3,53	43,9870	374	44,0244	374	44,0618	374	44,0992	375	44,1367	375
3,54	44,3619	376	44,3995	376	44,4371	376	44,4747	377	44,5124	377
3,55	44,7389	378	44,7767	378	44,8145	379	44,8524	379	44,8903	379
3,56	45,1180	380	45,1560	381	45,1941	381	45,2322	381	45,2703	381
3,57	45,4993	382	45,5375	383	45,5758	383	45,6141	383	45,6524	383
3,58	45,8827	385	45,9212	385	45,9597	385	45,9982	385	46,0367	385
3,59	46,2683	387	46,3070	387	46,3457	387	46,3844	387	46,4231	388
3,60	46,6560	389	46,6949	389	46,7338	389	46,7727	390	46,8117	390
3,61	47,0459	391	47,0850	391	47,1241	392	47,1633	391	47,2024	392
3,62	47,4379	394	47,4773	393	47,5166	394	47,5560	394	47,5954	394
3,63	47,8321	396	47,8717	396	47,9113	395	47,9508	396	47,9904	397
3,64	48,2285	398	48,2683	398	48,3081	398	48,3479	398	48,3877	399
3,65	48,6271	400	48,6671	400	48,7071	400	48,7471	401	48,7872	400
3,66	49,0279	402	49,0681	402	49,1083	403	49,1486	402	49,1888	403
3,67	49,4309	404	49,4713	404	49,5117	405	49,5522	405	49,5927	405
3,68	49,8360	407	49,8767	406	49,9173	407	49,9580	407	49,9987	407
3,69	50,2434	409	50,2843	408	50,3251	410	50,3661	409	50,4070	409
3,70	50,6530	411	50,6941	411	50,7352	411	50,7763	412	50,8175	411
3,71	51,0648	413	51,1061	413	51,1474	414	51,1888	414	51,2302	414
3,72	51,4788	416	51,5204	415	51,5619	416	51,6035	416	51,6451	416
3,73	51,8951	418	51,9369	417	51,9786	418	52,0204	419	52,0623	418
3,74	52,3136	420	52,3556	420	52,3976	420	52,4396	421	52,4817	420
3,75	52,7344	422	52,7766	422	52,8188	422	52,8610	423	52,9033	423
3,76	53,1574	424	53,1998	424	53,2422	425	53,2847	425	53,3272	425
3,77	53,5826	427	53,6253	427	53,6680	427	53,7107	427	53,7534	427
3,78	54,0102	428	54,0530	429	54,0959	429	54,1388	430	54,1818	430
3,79	54,4399	431	54,4830	432	54,5262	431	54,5693	432	54,6125	432
3,8	54,872	434	55,306	437	55,743	439	56,182	441	56,623	444
3,9	59,319	457	59,776	460	60,236	462	60,698	465	61,163	467
4,0	64,000	481	64,481	484	64,965	486	65,451	488	65,939	491
4,1	68,921	506	69,427	508	69,935	510	70,445	513	70,958	515
4,2	74,088	530	74,618	533	75,151	536	75,687	538	76,225	541
4,3	79,507	556	80,063	559	80,622	561	81,183	564	81,747	566
4,4	85,184	582	85,766	585	86,351	587	86,938	590	87,528	593
4,5	91,125	609	91,734	611	92,345	615	92,960	617	93,577	619
4,6	97,336	636	97,972	639	98,611	642	99,253	644	99,897	648
4,7	103,823	664	104,487	667	105,154	670	105,824	672	106,496	676
4,8	110,592	693	111,285	695	111,980	699	112,679	701	113,380	704
4,9	117,649	722	118,371	724	119,095	728	119,823	731	120,554	733
5,0	125,000	752	125,752	754	126,506	758	127,264	760	128,024	764
5,1	132,651	782	133,433	785	134,218	788	135,006	791	135,797	794
5,2	140,608	813	141,421	816	142,237	819	143,056	822	143,878	825
5,3	148,877	844	149,721	848	150,569	850	151,419	854	152,273	857
5,4	157,464	876	158,340	880	159,220	883	160,103	886	160,989	890

Błąd przybliżeń podanych na str. 118 i 119 jest dla $3,50 \leq x < 3,8$ nie większy niż 0,00005, a dla $3,8 \leq x < 5,5$ nie większy niż 0,0005. Błąd przybliżenia otrzymanego przez interpolację liniową jest dla $3,50 < x < 3,8$ mniejszy niż 0,0000529 + błąd zaokrąglenia wyniku, a dla $3,8 < x < 5,5$ mniejszy niż 0,000780 + błąd zaokrąglenia wyniku.

Przykład interpolacji na str. 120.

VII. Cubes (x^3)

5	δ	6	δ	7	δ	8	δ	9	δ	x
43,0590	369	43,0959	369	43,1328	369	43,1697	369	43,2066	370	3,50
43,4286	371	43,4657	371	43,5028	371	43,5399	371	43,5770	372	3,51
43,8003	373	43,8376	373	43,8749	374	43,9123	373	43,9496	374	3,52
44,1742	375	44,2117	375	44,2492	375	44,2867	376	44,3243	376	3,53
44,5501	377	44,5878	377	44,6255	378	44,6633	378	44,7011	378	3,54
44,9282	379	44,9661	379	45,0040	380	45,0420	380	45,0800	380	3,55
45,3084	381	45,3465	382	45,3847	382	45,4229	382	45,4611	382	3,56
45,6907	384	45,7291	384	45,7675	384	45,8059	384	45,8443	384	3,57
46,0752	386	46,1138	386	46,1524	386	46,1910	386	46,2296	387	3,58
46,4619	388	46,5007	388	46,5395	388	46,5783	388	46,6171	389	3,59
46,8507	390	46,8897	390	46,9287	390	46,9677	391	47,0068	391	3,60
47,2416	392	47,2808	393	47,3201	392	47,3593	393	47,3986	393	3,61
47,6348	394	47,6742	395	47,7137	394	47,7531	395	47,7926	395	3,62
48,0301	396	48,0697	397	48,1094	397	48,1491	397	48,1888	397	3,63
48,4276	398	48,4674	399	48,5073	399	48,5472	400	48,5872	399	3,64
48,8272	401	48,8673	401	48,9074	402	48,9476	401	48,9877	402	3,65
49,2291	403	49,2694	403	49,3097	404	49,3501	404	49,3905	404	3,66
49,6332	405	49,6737	405	49,7142	406	49,7548	406	49,7954	406	3,67
50,0394	408	50,0802	408	50,1210	408	50,1618	408	50,2026	408	3,68
50,4479	410	50,4889	410	50,5299	410	50,5709	410	50,6119	411	3,69
50,8586	412	50,8998	412	50,9410	413	50,9823	412	51,0235	413	3,70
51,2716	414	51,3130	414	51,3544	415	51,3959	414	51,4373	415	3,71
51,6867	416	51,7283	417	51,7700	417	51,8117	417	51,8534	417	3,72
52,1041	419	52,1460	418	52,1878	419	52,2297	420	52,2717	419	3,73
52,5237	421	52,5658	421	52,6079	421	52,6500	422	52,6922	422	3,74
52,9456	423	52,9879	423	53,0302	424	53,0726	424	53,1150	424	3,75
53,3697	426	53,4123	425	53,4548	426	53,4974	426	53,5400	426	3,76
53,7961	428	53,8389	428	53,8817	428	53,9245	428	53,9673	429	3,77
54,2248	430	54,2678	430	54,3108	430	54,3538	431	54,3969	430	3,78
54,6557	432	54,6989	432	54,7421	433	54,7854	433	54,8287	433	3,79
57,067	445	57,512	449	57,961	450	58,411	453	58,864	455	3,8
61,630	469	62,099	472	62,571	474	63,045	476	63,521	479	3,9
66,430	493	66,923	496	67,419	498	67,917	501	68,418	503	4,0
71,473	518	71,991	521	72,512	523	73,035	525	73,560	528	4,1
76,766	543	77,309	545	77,854	549	78,403	551	78,954	553	4,2
82,313	569	82,882	571	83,453	575	84,028	577	84,605	579	4,3
88,121	596	88,717	598	89,315	600	89,915	604	90,519	606	4,4
94,196	623	94,819	625	95,444	628	96,072	631	96,703	633	4,5
100,545	650	101,195	653	101,848	655	102,503	659	103,162	661	4,6
107,172	678	107,850	681	108,531	684	109,215	687	109,902	690	4,7
114,084	707	114,791	710	115,501	713	116,214	716	116,930	719	4,8
121,287	737	122,024	739	122,763	743	123,506	745	124,251	749	4,9
128,788	766	129,554	770	130,324	773	131,097	775	131,872	779	5,0
136,591	797	137,388	800	138,188	804	138,992	806	139,798	810	5,1
144,703	829	145,532	831	146,363	835	147,198	838	148,036	841	5,2
153,130	861	153,991	863	154,854	867	155,721	870	156,591	873	5,3
161,879	892	162,771	896	163,667	900	164,567	902	165,469	906	5,4

x^3

The error of the approximations given on pp. 118 and 119 is not greater than 0,00005 for $3,50 \leq x < 3,8$ and not greater than 0,0005 for $3,8 \leq x < 5,5$. The error of an approximation obtained by linear interpolation for $3,5 < x < 3,8$ is less than 0,0000529 + the error of rounding off the result and for $3,8 < x < 5,5$ less than 0,000780 + the error of rounding off the result.

An example of interpolation is given on p. 121.

VII. Sześciiany (x^3)

x	0	δ	1	δ	2	δ	3	δ	4	δ
5,5	166,375	909	167,284	913	168,197	915	169,112	919	170,031	923
5,6	175,616	942	176,558	946	177,504	950	178,454	952	179,406	956
5,7	185,19	098	186,17	098	187,15	098	188,13	099	189,12	099
5,8	195,11	101	196,12	102	197,14	102	198,16	102	199,18	102
5,9	205,38	105	206,43	104	207,47	106	208,53	105	209,58	106
6,0	216,00	108	217,08	109	218,17	109	219,26	109	220,35	110
6,1	226,98	112	228,10	112	229,22	113	230,35	113	231,48	113
6,2	238,33	115	239,48	116	240,64	116	241,80	117	242,97	117
6,3	250,05	119	251,24	120	252,44	120	253,64	120	254,84	121
6,4	262,14	123	263,37	124	264,61	124	265,85	124	267,09	125
6,5	274,63	126	275,89	128	277,17	128	278,45	128	279,73	128
6,6	287,50	130	288,80	132	290,12	131	291,43	132	292,75	133
6,7	300,76	135	302,11	135	303,46	136	304,82	136	306,18	137
6,8	314,43	139	315,82	139	317,21	140	318,61	140	320,01	141
6,9	328,51	143	329,94	143	331,37	144	332,81	145	334,26	144
7,0	343,00	147	344,47	148	345,95	148	347,43	148	348,91	149
7,1	357,91	152	359,43	151	360,94	153	362,47	152	363,99	154
7,2	373,25	156	374,81	156	376,37	156	377,93	157	379,50	158
7,3	389,02	160	390,62	160	392,22	161	393,83	162	395,45	162
7,4	405,22	165	406,87	165	408,52	165	410,17	166	411,83	166
7,5	421,88	168	423,56	170	425,26	170	426,96	170	428,66	171
7,6	438,98	173	440,71	174	442,45	174	444,19	175	445,94	176
7,7	456,53	178	458,31	179	460,10	179	461,89	179	463,68	180
7,8	474,55	183	476,38	183	478,21	184	480,05	184	481,89	185
7,9	493,04	187	494,91	188	496,79	189	498,68	189	500,57	189
8,0	512,00	192	513,92	193	515,85	193	517,78	194	519,72	194
8,1	531,44	197	533,41	198	535,39	198	537,37	198	539,35	199
8,2	551,37	202	553,39	202	555,41	203	557,44	204	559,48	204
8,3	571,79	207	573,86	207	575,93	208	578,01	208	580,09	209
8,4	592,70	212	594,82	213	596,95	213	599,08	213	601,21	214
8,5	614,13	217	616,30	217	618,47	218	620,65	219	622,84	219
8,6	636,06	222	638,28	222	640,50	224	642,74	223	644,97	224
8,7	658,50	228	660,78	227	663,05	229	665,34	229	667,63	229
8,8	681,47	233	683,80	233	686,13	234	688,47	234	690,81	234
8,9	704,97	238	707,35	238	709,73	239	712,12	240	714,52	240
9,0	729,00	243	731,43	244	733,87	244	736,31	245	738,76	246
9,1	753,57	249	756,06	249	758,55	250	761,05	250	763,55	251
9,2	778,69	254	781,23	255	783,78	255	786,33	256	788,89	256
9,3	804,36	259	806,95	261	809,56	261	812,17	261	814,78	262
9,4	830,58	266	833,24	266	835,90	266	838,56	267	841,23	268
9,5	857,38	271	860,09	271	862,80	272	865,52	273	868,25	273
9,6	884,74	276	887,50	278	890,28	278	893,06	278	895,84	279
9,7	912,67	283	915,50	283	918,33	284	921,17	284	924,01	285
9,8	941,19	289	944,08	289	946,97	289	949,86	290	952,76	291
9,9	970,30	294	973,24	295	976,19	296	979,15	296	982,11	296

Błąd przybliżeń podanych na str. 120 i 121 jest dla $5,50 \leq x < 5,70$ nie większy niż 0,0005, a dla $5,70 \leq x < 10,00$ nie większy niż 0,005. Błąd przybliżenia otrzymanego przez interpolację liniową jest dla $5,50 < x < 5,70$ mniejszy niż 0,000765 + błąd zaokrąglenia wyniku, a dla $5,70 < x < 10,00$ mniejszy niż 0,00575 + błąd zaokrąglenia wyniku.

Przykład. Należy obliczyć $782,15^3$. W tym celu odczytujemy w tablicy, że $7,82^3 \approx 478,21$ i $\delta = 184$, a w tablicach poprawek dla $\delta = 184$ i cyfr 1 i 5 liczby 18,4 i 92,0. Zatem $7,8215^3 \approx 478,21 + 0,184 + 0,092 = 478,486$ z dokładnością do 0,00575, a stąd $7,8215^3 \approx 478,49$ z dokładnością do 0,01. Mamy stąd $782,15^3 \approx 47849 \cdot 10^4$ z dokładnością do 10^4 . (Poprawkę do liczby $7,82^3 \approx 478,21$ można również obliczyć mnożąc $0,15 \cdot \delta = 0,15 \cdot 184 = 27,6$. Mamy wtedy $782,15^3 \approx 478,21 + 0,276 = 478,486$, jak poprzednio).

VII. Cubes (x^3)

5	δ	6	δ	7	δ	8	δ	9	δ	x
170,954	926	171,880	929	172,809	932	173,741	936	174,677	939	5,5
180,362	959	181,321	963	182,284	966	183,250	970	184,220	973	5,6
190,11	099	191,10	100	192,10	100	193,10	100	194,10	101	5,7
200,20	103	201,23	103	202,26	104	203,30	104	204,34	104	5,8
210,64	107	211,71	107	212,78	107	213,85	107	214,92	108	5,9
221,45	110	222,55	110	223,65	111	224,76	111	225,87	111	6,0
232,61	113	233,74	115	234,89	114	236,03	115	237,18	115	6,1
244,14	117	245,31	118	246,49	118	247,67	119	248,86	119	6,2
256,05	121	257,26	121	258,47	122	259,69	123	260,92	122	6,3
268,34	125	269,59	125	270,84	126	272,10	126	273,36	127	6,4
281,01	129	282,30	129	283,59	130	284,89	130	286,19	131	6,5
294,08	133	295,41	133	296,74	134	298,08	134	299,42	134	6,6
307,55	137	308,92	137	310,29	138	311,67	138	313,05	138	6,7
321,42	141	322,83	141	324,24	142	325,66	142	327,08	143	6,8
335,70	145	337,15	146	338,61	146	340,07	146	341,53	147	6,9
350,40	150	351,90	149	353,39	150	354,89	151	356,40	151	7,0
365,53	153	367,06	154	368,60	155	370,15	154	371,69	156	7,1
381,08	158	382,66	158	384,24	159	385,83	159	387,42	160	7,2
397,07	162	398,69	163	400,32	163	401,95	163	403,58	164	7,3
413,49	167	415,16	167	416,83	168	418,51	168	420,19	169	7,4
430,37	171	432,08	172	433,80	172	435,52	173	437,25	173	7,5
447,70	176	449,46	176	451,22	176	452,98	178	454,76	177	7,6
465,48	181	467,29	181	469,10	181	470,91	182	472,73	182	7,7
483,74	185	485,59	185	487,44	186	489,30	187	491,17	187	7,8
502,46	190	504,36	190	506,26	191	508,17	191	510,08	192	7,9
521,66	195	523,61	195	525,56	195	527,51	197	529,48	196	8,0
541,34	200	543,34	200	545,34	200	547,34	201	549,35	202	8,1
561,52	204	563,56	205	565,61	205	567,66	206	569,72	207	8,2
582,18	210	584,28	210	586,38	210	588,48	211	590,59	211	8,3
603,35	215	605,50	215	607,65	215	609,80	216	611,96	217	8,4
625,03	219	627,22	220	629,42	221	631,63	221	633,84	222	8,5
647,21	225	649,46	225	651,71	226	653,97	226	656,23	227	8,6
669,92	230	672,22	231	674,53	231	676,84	231	679,15	232	8,7
693,15	236	695,51	235	697,86	237	700,23	237	702,60	237	8,8
716,92	240	719,32	241	721,73	242	724,15	242	726,57	243	8,9
741,22	246	743,68	246	746,14	247	748,61	248	751,09	248	9,0
766,06	252	768,58	252	771,10	252	773,62	253	776,15	254	9,1
791,45	257	794,02	258	796,60	258	799,18	259	801,77	259	9,2
817,40	263	820,03	263	822,66	263	825,29	265	827,94	264	9,3
843,91	268	846,59	269	849,28	269	851,97	270	854,67	271	9,4
870,98	274	873,72	275	876,47	275	879,22	275	881,97	277	9,5
898,63	280	901,43	280	904,23	281	907,04	281	909,85	282	9,6
926,86	285	929,71	286	932,57	287	935,44	287	938,31	288	9,7
955,67	292	958,59	291	961,50	293	964,43	293	967,36	294	9,8
985,07	298	988,05	298	991,03	298	994,01	299	997,00	300	9,9

The error of the approximations given on pp. 120 and 121 is not greater than 0,0005 for $5,50 \leq x < 5,70$ and not greater than 0,005 for $5,70 \leq x < 10,00$. The error of an approximation obtained by linear interpolation for $5,50 < x < 5,70$ is less than $0,000765 +$ the error of rounding off the result and for $5,70 < x < 10,00$ less than $0,00575 +$ the error of rounding off the result.

Example. To find $782,15^3$ we read in the table that $7,82^3 \approx 478,21$ and $\delta = 184$ and find in the tables of proportional parts for $\delta = 184$ and the figures 1 and 5 the numbers 18,4 and 92,0. Consequently $7,8215^3 \approx 478,21 + 0,184 + 0,092 = 478,486$ with error less than 0,00575, whence $7,8215^3 \approx 478,49$ with error less than 0,01. We then have $782,15^3 \approx 47849 \cdot 10^4$ with error less than 10^4 . (The correction for the number $7,82^3 \approx 478,21$ can also be found by multiplying $0,15 \cdot \delta = 0,15 \cdot 184 = 27,6$. We then have $782,15^3 \approx 478,21 + 0,276 = 478,486$ as before).