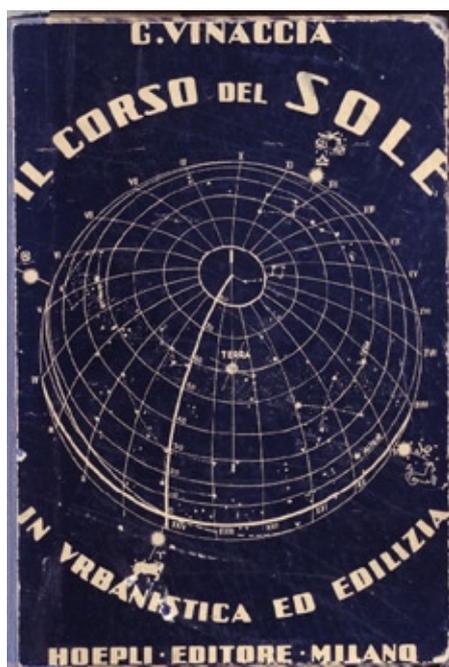


GAETANO VINACCIA
IL CORSO DEL SOLE
IN URBANISTICA ED EDILIZIA



APPENDICE

TAV. III, IV, V
**Per la risoluzione del triangolo
astronomico di posizione**

TAVOLE III, IV e V

PER LA RISOLUZIONE DEL TRIANGOLO ASTRONOMIC DI POSIZIONE

Richiamiamo quanto è detto a pag. 50.

La formula risolutiva del triangolo sferico è:

$$\begin{cases} \cos a = \cos b \cos c + \sin b \sin c \cos A; \\ \cos b = \cos a \cos c + \sin a \sin c \cos B; \\ \cos c = \cos a \cos b + \sin a \sin b \cos C; \end{cases}$$

dalla quale si ricavano:

$$\begin{cases} \sin h = \sin \varphi \sin \delta + \cos \varphi \cos \delta \cos t; \\ \sin \delta = \sin \varphi \sin h + \cos \varphi \cos h \cos A; \\ \sin \varphi = \sin h \sin \delta + \cos h \cos \delta \cos S; \end{cases}$$

h = altezza del Sole; φ = latitudine; δ = declinazione; P = angolo orario A = azimut; S = angolo parallatico o al Sole.

La Tavola III dà i valori di:

$$\log \sin a \sin b \begin{cases} 0^{\circ}-25^{\circ} \\ 0^{\circ}-70^{\circ} \end{cases} \quad \cos a \cos b \begin{cases} 90^{\circ}-65^{\circ} \\ 90^{\circ}-20^{\circ} \end{cases}$$

La Tavola IV dà i valori di:

$$\log \cos a \cos b \begin{cases} 0^{\circ}-25^{\circ} \\ 0^{\circ}-70^{\circ} \end{cases} \quad \sin a \sin b \begin{cases} 90^{\circ}-65^{\circ} \\ 90^{\circ}-20^{\circ} \end{cases}$$

La Tavola V dà i valori di:

$$\log \begin{cases} \sin a (0^{\circ}-90^{\circ}) \\ \cos a (0^{\circ}-90^{\circ}) \end{cases}$$

Per risolvere le equazioni suindicate, dalla Tavola III si ricava prima il valore della 1^a parte del 2^o membro dell'equazione:

$$\log \operatorname{sen} \alpha \operatorname{sen} b.$$

Dalla Tavola IV si ricava il valore di:

$$\log \cos a \cos b$$

al quale si aggiunge:

$$+ \log \cos C \text{ (Tavola V)}$$

e si ha:

$$\log \cos a \cos b \cos C.$$

Con i logaritmi delle due parti del 2^o membro dell'equazione con l'ausilio delle tavole di logaritmi di addizione * si trova il logaritmo della loro somma. Da questo si risale all'angolo (Tavola V).

ESEMPIO.

Calcolare l'altezza del Sole a Palermo ($\varphi = 38^\circ \text{ N}$) il 27 Agosto 1940 (anno bisestile) alle ore 11.

Ricerchiamo i dati per impiantare l'equazione (3):

$$\operatorname{sen} h = \operatorname{sen} \varphi \operatorname{sen} \delta + \cos \varphi \cos \delta \cos t$$

$$\varphi = 38^\circ;$$

$$\delta = 10^\circ 12' \text{ (dalla Tabella II, pag. 29);}$$

$$t = 12^{\text{h}} - 11^{\text{h}} = 1^{\text{h}} \text{ (15}^\circ\text{)}.$$

$$\operatorname{sen} h = \operatorname{sen} 38^\circ \operatorname{sen} 10^\circ + \cos 38^\circ \cos 10^\circ \cos 15^\circ$$

dalla Tavola III ricaviamo:

$$\log (\operatorname{sen} 38^\circ \operatorname{sen} 10^\circ) = 9,02901$$

* Vedi O. MÜLLER e M. RAJNA, *Tavole di logaritmi*. U. Hoepli, editore, Milano.

dalla Tavola IV ricaviamo:

$$\log (\cos 38^{\circ} \cos 10^{\circ}) = 9,88988$$

dalla Tavola V ricaviamo:

$$\log \cos 15^{\circ} = 9,98494$$

per cui:

$$\log (\cos 38^{\circ} \cos 10^{\circ} \cos 15^{\circ}) = 9,87482$$

dai logaritmi di addizione

$$\log (\sin 38^{\circ} \sin 10^{\circ} + \cos 38^{\circ} \cos 10^{\circ} \cos 15^{\circ}) = \log 9,93270$$

cioè:

$$\log \sin h = 9,93270$$

al quale corrisponde il valore di:

$$h = 58^{\circ}55'$$

l'altezza meridiana per tale giorno e luogo sarebbe invece:

$$H = 90^{\circ} - 38^{\circ} + 10^{\circ} 12' = 62^{\circ} 12'.$$

TAVOLA III. — Risoluzione del triangolo astronomico.

log (sen a sen b).

sen	0	1	2	3	4	5	cos
<i>a</i>				<i>b</i>			
0	—	—	—	—	—	—	90
1	—	6,48372	6,78468	6,96666	7,08544	7,18216	89
2	—	6,78468	7,08564	7,26162	7,38640	7,48312	88
3	—	6,96066	7,26162	7,43760	7,56238	7,65910	87
4	—	7,08544	7,38640	7,56238	7,68716	7,78388	86
5	—	7,18216	7,48312	7,65910	7,78388	7,88060	85
6	—	7,26109	7,56205	7,73803	7,86281	7,95953	84
7	—	7,32775	7,62871	7,80469	7,92947	8,02619	83
8	—	7,38542	7,68638	7,86236	7,98714	8,08386	82
9	—	7,43619	7,73715	7,91313	8,03791	8,13463	81
10	—	7,48153	7,78249	7,95847	8,08325	8,17997	80
11	—	7,52246	7,82342	7,99940	8,12418	8,22090	79
12	—	7,55974	7,86070	8,03668	8,16146	8,25818	78
13	—	7,59395	7,89491	8,07089	8,19567	8,29239	77
14	—	7,62554	7,92650	8,10248	8,22726	8,32398	76
15	—	7,65486	7,95582	8,13180	8,25658	8,35330	75
16	—	7,68220	7,98316	8,15914	8,28392	8,38064	74
17	—	7,70780	8,00876	8,18474	8,30952	8,40624	73
18	—	7,73184	8,03280	8,20878	8,33356	8,43028	72
19	—	7,75450	8,05546	8,23144	8,35622	8,45294	71
20	—	7,77591	8,07687	8,25285	8,37763	8,47435	70
21	—	7,79619	8,09715	8,27213	8,39791	8,49463	69
22	—	7,81544	8,11640	8,29238	8,41716	8,51388	68
23	—	7,83374	8,13470	8,31068	8,43546	8,53218	67
24	—	7,85117	8,15213	8,32811	8,45289	8,54961	66
25	—	7,86781	8,16877	8,34475	8,46953	8,56625	65
26	—	7,88370	8,18466	8,36064	8,48542	8,58214	64
27	—	7,89891	8,19987	8,37585	8,50063	8,59735	63
28	—	7,91347	8,21443	8,39041	8,51519	8,61191	62
29	—	7,92743	8,22839	8,40437	8,52915	8,62587	61
30	—	7,94083	8,24179	8,41777	8,54255	8,63927	60
31	—	7,95370	8,25466	8,43064	8,55542	8,65214	59
32	—	7,96607	8,26703	8,44301	8,56779	8,66451	58
33	—	7,97797	8,27893	8,45491	8,57969	8,67641	57
34	—	7,98942	8,29038	8,46636	8,59114	8,68786	56
35	—	8,00045	8,30141	8,47739	8,60218	8,69889	55
	90	89	88	87	86	85	cos

Segue: TAVOLA III.

log (sen a sen b).

sen	0	1	2	3	4	5	cos
a				b			
36	—	8,01008	8,31204	8,48802	8,61280	8,70952	54
37	—	8,02132	8,32228	8,49826	8,62304	8,71976	53
38	—	8,03120	8,33216	8,50814	8,63292	8,72964	52
39	—	8,04073	8,34169	8,51767	8,64245	8,73917	51
40	—	8,04993	8,35089	8,52687	8,65165	8,74837	50
41	—	8,05880	8,35976	8,53574	8,66052	8,75724	49
42	—	8,06737	8,36833	8,54431	8,66909	8,76581	48
43	—	8,07564	8,37660	8,55258	8,67736	8,77408	47
44	—	8,08363	8,38459	8,56057	8,68535	8,78207	46
45	—	8,09135	8,39231	8,56829	8,69307	8,78979	45
46	—	8,09879	8,39975	8,57573	8,70051	8,79723	44
47	—	8,10599	8,40695	8,58293	8,70771	8,80443	43
48	—	8,11293	8,41389	8,58987	8,71465	8,81137	42
49	—	8,11964	8,42060	8,59658	8,72136	8,81808	40
50	—	8,12611	8,42707	8,60305	8,72783	8,82455	41
51	—	8,13236	8,43332	8,60930	8,73408	8,83080	39
52	—	8,13839	8,43935	8,61533	8,74011	8,83638	38
53	—	8,14421	8,44517	8,62115	8,74593	8,84265	37
54	—	8,14982	8,45078	8,62676	8,85154	8,84826	36
55	—	8,15522	8,45618	8,63216	8,75694	8,85366	35
56	—	8,16043	8,46139	8,63737	8,76215	8,85887	34
57	—	8,16545	8,46641	8,64239	8,76717	8,86389	33
58	—	8,17028	8,47124	8,64722	8,77200	8,86872	32
59	—	8,17493	8,47589	8,65187	8,77665	8,87337	31
60	—	8,17939	8,48035	8,65633	8,78111	8,87783	30
61	—	8,18368	8,48464	8,66062	8,78540	8,88212	29
62	—	8,18779	8,48875	8,66473	8,78951	8,88623	28
63	—	8,19174	8,49270	8,66868	8,79346	8,89018	27
64	—	8,19552	8,49648	8,67246	8,79724	8,89396	26
65	—	8,19914	8,50010	8,67608	8,80086	8,89758	25
66	—	8,20259	8,50355	8,67953	8,80431	8,90103	24
67	—	8,20589	8,50685	8,68283	8,80761	8,90433	23
68	—	8,20903	8,50999	8,68597	8,81075	8,90747	22
69	—	8,21201	8,51297	8,68895	8,81373	8,91045	21
70	—	8,21485	8,51581	8,69179	8,81657	8,91329	20
	90	89	88	87	86	85	cos

Segue: TAVOLA III.

log (sen a sen b).

sen	6	7	8	9	10	11	cos
a				b			
0	—	—	—	—	—	—	90
1	7,26109	7,32775	7,38542	7,43619	7,48153	7,52246	89
2	7,56205	7,62871	7,68638	7,73715	7,78247	7,82342	88
3	7,73803	7,80469	7,86236	7,91313	7,95847	7,99940	87
4	7,86281	7,92947	7,98714	8,03791	8,08325	8,12418	86
5	7,95953	8,02619	8,08386	8,13463	8,17997	8,22090	85
6	8,03846	8,10512	8,16279	8,21356	8,25890	8,29983	84
7	8,10512	8,17178	8,22945	8,28022	8,32556	8,36649	83
8	8,16279	8,22945	8,28712	8,33789	8,38323	8,42416	82
9	8,21356	8,28022	8,33789	8,38866	8,43400	8,47493	81
10	8,25890	8,32556	8,38323	8,43400	8,47934	8,52027	80
11	8,29983	8,36649	8,42416	8,47493	8,52027	8,56120	79
12	8,33711	8,40377	8,46144	8,51221	8,55755	8,59848	78
13	8,37132	8,43798	8,49565	8,54642	8,59176	8,63269	77
14	8,40291	8,46957	8,52724	8,57801	8,62335	8,66428	76
15	8,43223	8,49889	8,55656	8,60733	8,65267	8,69360	75
16	8,45957	8,52623	8,58390	8,63467	8,68001	8,72094	74
17	8,48517	8,55183	8,60950	8,66027	8,70561	8,74654	73
18	8,50921	8,57587	8,63354	8,68431	8,72965	8,77058	72
19	8,53187	8,59853	8,65620	8,60697	8,75231	8,79324	71
20	8,55328	8,61994	8,67761	8,72838	8,77372	8,81465	70
21	8,57356	8,64022	8,69789	8,74866	8,79400	8,83493	69
22	8,59281	8,65947	8,71714	8,76791	8,81325	8,85418	68
23	8,61111	8,67777	8,73544	8,78621	8,83155	8,87248	67
24	8,62854	8,69520	8,75287	8,80364	8,84898	8,88991	66
25	8,64518	8,71184	8,76951	8,82028	8,86562	8,90655	65
26	8,66107	8,72773	8,78540	8,83617	8,88151	8,92244	64
27	8,67628	8,74294	8,80061	8,85138	8,89672	8,93765	63
28	8,69084	8,75750	8,81517	8,86594	8,91128	8,95221	62
29	8,70480	8,77146	8,82913	8,87990	8,92524	8,96617	61
30	8,71820	8,78486	8,84253	8,89330	8,93864	8,97957	60
31	8,73107	8,79773	8,85540	8,90617	8,95151	8,99244	59
32	8,74344	8,81010	8,86777	8,91854	8,96388	9,00481	58
33	8,75534	8,82200	8,87967	8,93044	8,97578	9,01671	57
34	8,76679	8,83345	8,89112	8,94189	8,98723	9,02816	56
35	8,77782	8,84448	8,90215	8,95292	8,99826	9,03919	55
	84	83	82	81	80	79	cos

Segue: TAVOLA III.

log (sen a sen b).

sen	6	7	8	9	10	11	cos
a				b			
36	8,78845	8,85511	8,91278	8,96355	9,00889	9,40982	54
37	8,79869	8,86535	8,92302	8,97379	9,01913	9,06006	53
38	8,80857	8,87523	8,93290	8,98367	9,02901	9,06994	52
39	8,81810	8,88476	8,94243	8,99320	9,03854	9,07947	51
40	8,82730	8,89396	8,95163	9,00240	9,04774	9,08867	50
41	8,83617	8,90283	8,96050	9,01127	9,05661	9,09754	49
42	8,84474	8,91144	8,96907	9,01984	9,06518	9,10611	48
43	8,85301	8,91967	8,97734	9,02811	9,07345	9,11438	47
44	8,86100	8,92766	8,98533	9,03610	9,08144	9,12237	46
45	8,86872	8,93538	8,99305	9,04382	9,08916	9,13009	45
46	8,87616	8,94282	9,00049	9,05126	9,09660	9,13753	44
47	8,88336	8,95002	9,00769	9,05846	9,10380	9,14473	43
48	8,89030	8,95696	9,01463	9,06540	9,11074	9,15167	42
49	8,89701	8,96367	9,02134	9,07211	9,11745	9,15838	41
50	8,90348	8,97014	9,02781	9,07858	9,12392	9,16485	40
51	8,90973	8,97639	9,03406	9,08483	9,13017	9,17110	39
52	8,91576	8,98242	9,04009	9,09086	9,13620	9,17713	38
53	8,92158	8,98824	9,04591	9,09668	9,14202	9,18295	37
54	8,92719	8,99385	9,05152	9,10229	9,14763	9,18856	36
55	8,93259	8,99925	9,05692	9,10769	9,15303	9,19396	35
56	8,93780	9,00446	9,06213	9,11290	9,15824	9,19917	34
57	8,94282	9,00948	9,06715	9,11792	9,16326	9,20419	33
58	8,94765	9,01431	9,07198	9,12275	9,16809	9,20902	32
59	8,95230	9,01896	9,07663	9,12740	9,17274	9,21367	31
60	8,95676	9,02342	9,08109	9,13186	9,17720	9,21813	30
61	8,96105	9,02771	9,08538	9,13615	9,18149	9,22242	29
62	8,96516	9,03182	9,08949	9,14026	9,18560	9,22653	28
63	8,96911	9,03577	9,09344	9,14421	9,18955	9,23048	27
64	8,97289	9,03955	9,09722	9,14799	9,19333	9,23426	26
65	8,97651	9,04317	9,10084	9,15161	9,19695	9,23788	25
66	8,97996	9,04663	9,10429	9,15506	9,20040	9,24133	24
67	8,98326	9,04992	9,10759	9,15836	9,20370	9,24463	23
68	8,98640	9,05306	9,11073	9,16250	9,20684	9,24777	22
69	8,98938	9,05604	9,11371	9,16648	9,20982	9,25075	21
70	8,99222	9,05888	9,11655	9,16732	9,21266	9,25359	20
	84	83	82	81	80	79	cos

Segue: TAVOLA III.

log (sen a sen b).

sen	12	13	14	15	16	17	18	cos
a					b			
0	—	—	—	—	—	—	—	90
1	7,55974	7,59395	7,62554	7,65486	7,68820	7,70780	7,73184	89
2	7,86070	7,89491	7,92650	7,95582	7,98316	8,00876	8,03280	88
3	8,03668	8,07089	8,10248	8,13180	8,15914	8,18474	8,20878	87
4	8,16146	8,19567	8,22726	8,25658	8,28392	8,30952	8,33356	86
5	8,25818	8,29239	8,32398	8,35330	8,38064	8,40628	8,43028	85
6	8,33711	8,37132	8,40291	8,43223	8,45957	8,48517	8,50921	84
7	8,40377	8,43798	8,46957	8,49889	8,52623	8,55183	8,57587	83
8	8,46144	8,49565	8,52724	8,55656	8,58390	8,60950	8,63354	82
9	8,51221	8,54642	8,57801	8,60733	8,63467	8,66027	8,68431	81
10	8,55755	8,59176	8,62335	8,65267	8,68001	8,70561	8,72965	80
11	8,59848	8,63269	8,66428	8,69360	8,72094	8,74654	8,77058	79
12	8,63576	8,66997	8,70156	8,73088	8,75822	8,78382	8,80786	78
13	8,66997	8,70418	8,73577	8,76509	8,79243	8,81803	8,84207	77
14	8,70156	8,73577	8,76736	8,79668	8,82402	8,84962	8,87366	76
15	8,73088	8,76509	8,79668	8,82600	8,85334	8,87894	8,90298	75
16	8,75822	8,80243	8,82402	8,85334	8,88068	8,90628	8,93032	74
17	8,78382	8,81803	8,84962	8,87894	8,90628	8,93188	8,95592	73
18	8,80786	8,84207	8,87366	8,90298	8,93032	8,95592	8,97996	72
19	8,83052	8,86473	8,89632	8,92564	8,95298	8,97858	9,00262	71
20	8,85193	8,88614	8,91773	8,94705	8,97439	8,99999	9,02403	70
21	8,87221	8,90642	8,93801	8,96733	8,99467	9,02027	9,04431	69
22	8,89146	8,92567	8,95726	8,98658	9,01392	9,03952	9,06356	68
23	8,90976	8,94397	8,97556	9,00488	9,03222	9,05782	9,08186	67
24	8,92719	8,96140	8,99299	9,02231	9,04965	9,07525	9,09929	66
25	8,94383	8,97804	9,00963	9,03895	9,06629	9,09189	9,11593	65
26	8,95972	8,99393	9,02552	9,05484	9,08218	9,10778	9,13182	64
27	8,97493	9,00914	9,04073	9,07005	9,09739	9,12299	9,14703	63
28	8,98949	9,02370	9,05529	9,08461	9,11195	9,13755	9,16159	62
29	9,00345	9,03766	9,06925	9,09857	9,12591	9,15151	9,17555	61
30	9,01685	9,05106	9,08265	9,11197	9,13931	9,16491	9,18895	60
31	9,02972	9,06393	9,09552	9,12484	9,15218	9,17778	9,20182	59
32	9,04209	9,07630	9,10789	9,13721	9,16455	9,19015	9,21419	58
33	9,05399	9,08820	9,11979	9,14911	9,17645	9,20205	9,22609	57
34	9,06544	9,09965	9,13124	9,16056	9,18790	9,21350	9,23754	56
35	9,07647	9,11068	9,14227	9,17159	9,19893	9,22453	9,24857	55
	78	77	76	75	74	73	72	cos

Segue: TAVOLA III.

log (sen a sen b).

sen	12	13	14	15	16	17	18	cos
<i>a</i>								
					<i>b</i>			
36	9,08710	9,12131	9,15290	9,18222	9,20956	9,23516	9,25920	54
37	9,09734	9,13155	9,16314	9,19246	9,21980	9,24540	9,26944	53
38	9,10722	9,14143	9,17302	9,20234	9,22968	9,25528	9,27932	52
39	9,11675	9,15098	9,18255	9,21187	9,23921	9,26481	9,28885	51
40	9,12595	9,16016	9,19175	9,22107	9,24841	9,27401	9,29805	50
41	9,13482	9,16903	6,20062	9,22994	9,25728	9,28288	9,30692	49
42	9,14339	9,17760	9,20919	9,23851	9,26585	9,29145	9,31549	48
43	9,15166	9,18587	9,21746	9,24678	9,27412	9,29972	9,32376	47
44	9,15965	9,19386	9,22545	9,25477	9,28211	9,30771	9,33175	46
45	9,16737	9,20158	9,23317	9,26249	9,28983	9,31543	9,33947	45
46	9,17481	9,20902	9,24061	9,26993	9,29727	9,32287	9,34691	44
47	9,18201	9,21622	9,24781	9,27713	9,30447	9,33007	9,35411	43
48	9,18895	9,22316	9,25475	9,28407	9,31141	9,33701	9,36105	42
49	9,19566	9,22987	9,26146	9,29078	9,31812	9,34372	9,36776	41
50	9,20213	9,23634	9,26793	9,29725	9,32459	9,35019	9,37423	40
51	9,20838	9,24259	9,27418	9,30350	9,33084	9,35644	9,38048	39
52	9,21441	9,24862	9,28021	9,30953	9,33687	9,36247	9,38651	38
53	9,22023	9,25444	9,28603	9,31535	9,34269	9,36829	9,39233	37
54	9,22584	9,26005	9,29164	9,32096	9,34830	9,37390	9,39794	36
55	9,23124	9,26545	9,29704	9,32636	9,35370	9,37930	9,40334	35
56	9,23645	9,27066	9,30225	9,33157	9,35891	9,38451	9,40855	34
57	9,24147	9,27568	9,30727	9,33659	9,36393	9,38953	9,41357	33
58	9,24630	9,28051	9,31210	9,34142	9,36876	9,39436	9,41840	32
59	9,25095	9,28516	9,31675	9,34607	9,37341	9,39901	9,42305	31
60	9,25541	9,28962	9,32121	9,35053	9,37787	9,40347	9,42751	30
61	9,25970	9,29391	9,32550	9,35482	9,38216	9,40776	9,43180	29
62	9,26381	9,29802	9,32961	9,35893	9,38627	9,41187	9,43591	28
63	9,26776	9,30197	9,33356	9,36288	9,39022	9,41582	9,43986	27
64	9,27154	9,30575	9,33734	9,36666	9,39400	9,41960	9,44364	26
65	9,27516	9,30937	9,34096	9,37028	9,39762	9,42322	9,44726	25
66	9,27861	9,31282	9,34441	9,37373	9,40101	9,42667	9,45071	24
67	9,28191	9,31612	9,34771	9,37703	9,40437	9,42997	9,45401	23
68	9,28505	9,31926	9,35085	9,38017	9,40751	9,43311	9,45715	22
69	9,28803	9,32224	9,35383	9,38315	9,41049	9,43609	9,46013	21
70	9,29087	9,32508	9,36667	9,38599	9,41333	9,43893	9,46297	20
	78	77	76	75	74	73	72	cos

Segue: TAVOLA III.

log (sen a sen b).

sen	19	20	21	22	23	24	25	cos
a					b			
0	—	—	—	—	—	—	—	90
1	7,75450	7,77591	7,79619	7,81544	7,83374	7,85111	7,86781	89
2	8,05546	8,07687	8,09115	8,11640	8,13470	8,15213	8,16877	88
3	8,23144	8,25285	8,27313	8,29238	8,31068	8,32811	8,34475	87
4	8,35622	8,37763	8,39791	8,41716	8,43546	8,45289	8,46953	86
5	8,45294	8,47435	8,49463	8,51388	8,53218	8,54961	8,56625	85
6	8,53187	8,55328	8,57356	8,59281	9,61111	8,62854	8,64518	84
7	8,59853	8,61994	8,64012	8,65947	8,67777	8,69520	8,71184	83
8	8,65620	8,67761	8,69789	8,71714	8,73544	8,75287	8,76951	82
9	8,70697	8,72838	8,74866	8,76791	8,78621	8,80364	8,82028	81
10	8,75231	8,77372	8,79400	8,81325	8,83155	8,84898	8,86562	80
11	8,79324	8,81465	8,83493	8,85418	8,87248	8,88991	8,90655	79
12	8,83052	8,85193	8,87221	8,89146	8,90976	8,92719	8,94383	78
13	8,86473	8,88614	8,90642	8,92567	8,94397	8,96140	8,97804	77
14	8,89632	8,91773	8,93801	8,95726	8,97556	8,99299	9,00963	76
15	8,92564	8,94705	8,96733	8,98658	9,00488	9,02231	9,03895	75
16	8,95298	8,97439	8,99467	9,01392	9,03222	9,04965	9,06629	74
17	8,97858	8,99999	9,02027	9,03952	9,05782	9,07525	9,09189	73
18	9,00262	9,02403	9,04431	9,06356	9,08186	9,09929	9,11593	72
19	9,02528	9,04669	9,06697	9,08622	9,10452	9,12195	9,23859	71
20	9,04669	9,06810	9,08838	9,10763	9,12593	9,14336	9,16000	70
21	9,06697	9,08838	9,10886	9,12791	9,14621	9,16364	9,18028	69
22	9,08622	9,10763	9,12791	9,14716	9,16546	9,18289	9,19953	68
23	9,10452	9,12593	9,14621	9,16546	9,18376	9,20119	9,21788	67
24	9,12195	9,14336	9,16364	9,18289	9,20119	9,21862	9,23526	66
25	9,13859	9,16000	9,18028	9,19953	9,21783	9,23526	9,25180	65
26	9,15448	9,17589	9,19617	9,21542	9,23372	9,25115	9,26779	64
27	9,16969	9,19110	9,21138	9,23063	9,24893	9,26636	9,28306	63
28	9,18425	9,20566	9,22594	9,24519	9,26349	9,28092	9,29756	62
29	9,19821	9,21962	9,23990	9,25915	9,27745	9,29488	9,31152	61
30	9,21161	9,23302	9,25330	9,27255	9,29085	9,30828	9,32492	60
31	9,22448	9,24589	9,26617	9,28542	9,30372	9,32115	9,33779	59
32	9,23685	9,25826	9,27854	9,29779	9,31609	9,33351	9,35016	58
33	9,24875	9,27016	9,29044	9,30969	9,32799	9,34542	9,36206	57
34	9,26020	9,28161	9,30189	9,32114	9,33944	9,35687	9,37351	56
35	9,27123	9,29264	9,31292	9,33217	9,35047	9,36790	9,38454	55
	71	70	69	68	67	66	65	cos

Segue: TAVOLA III.

log (sen a sen b).

sen	19	20	21	22	23	24	25	cos
<i>a</i>					<i>b</i>			
36	9,28186	9,30327	9,32355	9,34280	9,36110	9,37853	9,39517	54
37	9,29210	9,31351	9,33379	9,35304	9,37134	9,38877	9,40541	53
38	9,30198	9,32339	9,34367	9,36292	9,38122	9,39865	9,41529	52
39	9,31151	9,33292	9,35320	9,37245	9,39075	9,40818	9,42482	51
40	9,32071	9,34212	9,36240	9,38165	9,39995	9,41738	9,43402	50
41	9,32958	9,35099	9,37127	9,39052	9,40882	9,42625	9,44289	49
42	9,33815	9,35956	9,37984	9,39909	9,41739	9,43482	9,45146	48
43	9,34642	9,36783	9,38811	9,40736	9,42566	9,44309	9,45973	47
44	9,35441	9,37582	9,39610	9,41535	9,43365	9,45108	9,46772	46
45	9,36213	9,38354	9,40382	9,42307	9,44137	9,45880	9,47544	45
46	9,36957	9,39098	9,41126	9,43051	9,44881	9,46624	9,48288	44
47	9,37677	9,39818	9,41846	9,43771	9,45601	9,47344	9,49008	43
48	9,38371	9,40512	9,42540	9,44465	9,46295	9,48038	9,49702	42
49	9,39042	9,41183	9,43211	9,45136	9,46966	9,48709	9,50373	41
50	9,39689	9,41830	9,43858	9,45783	9,47613	9,49356	9,51020	40
51	9,40314	9,42455	9,44483	9,46408	9,48238	9,49981	9,51645	39
52	9,40917	9,43058	9,45086	9,47011	9,48841	9,50584	9,52248	38
53	9,41499	9,43640	9,45668	9,47593	9,49423	9,51166	9,52830	37
54	9,42060	9,44201	9,46229	9,48154	9,49984	9,51727	9,53391	36
55	9,42600	9,44741	9,46769	9,48694	9,50524	9,52267	9,53931	35
56	9,43121	9,45262	9,47290	9,49215	9,51045	9,52788	9,54452	34
57	9,43623	9,45764	9,47792	9,49717	9,51547	9,53290	9,55954	33
58	9,44106	9,46247	9,48275	9,50200	9,52030	9,53773	9,55437	32
59	9,44571	9,46712	9,48740	9,50665	9,52495	9,54238	9,55902	31
60	9,45017	9,47158	9,49186	9,51111	9,52941	9,54684	9,56348	30
61	9,45446	9,47587	9,49615	9,51540	9,53370	9,55113	9,56777	29
62	9,45857	9,47998	9,50026	9,51951	9,53781	9,55524	9,57188	28
63	9,46252	9,48393	9,50421	9,52346	9,54176	9,55919	9,57583	27
64	9,46630	9,48771	9,50799	9,53724	9,54554	9,56297	9,57961	26
65	9,46992	9,49133	9,51161	9,53086	9,54916	9,56659	9,58323	25
66	9,47337	9,49478	9,51506	9,53431	9,55261	9,57004	9,58668	24
67	9,47663	9,49808	9,51836	9,53761	9,55591	9,57334	9,58998	23
68	9,47981	9,50122	9,52150	9,54075	9,55905	9,57648	9,59312	22
69	9,48279	9,50420	9,52448	9,54373	9,56203	9,57946	9,59610	21
70	9,48563	9,50704	9,52732	9,54657	9,56487	9,58230	9,59894	20
	71	70	69	68	67	66	65	cos

TAVOLA IV. — Risoluzione del triangolo astronomico.

log (cos a cos b).

cos	12	13	14	15	16	17	18	sen
<i>a</i>				<i>b</i>				
0	9,99140	9,98872	9,98690	9,98494	9,98284	9,98060	9,97821	90
1	9,99033	9,98865	9,98683	9,98487	9,98277	9,98053	9,97814	89
2	9,99014	9,98846	9,98664	9,98468	9,98258	9,98034	9,97795	88
3	9,98980	9,98812	9,98630	9,98434	9,98224	9,98000	9,97761	87
4	9,98934	9,98766	9,98584	9,98388	9,98178	9,97954	9,97715	86
5	9,98874	9,98706	9,98524	9,98328	9,98118	9,97894	9,97655	85
6	9,98801	9,98633	9,98451	9,98255	9,98045	9,97821	9,97582	84
7	9,98715	9,98547	9,98365	9,98169	9,97959	9,97735	9,97496	83
8	9,98615	9,98447	9,98265	9,98069	9,97859	9,97635	9,97396	82
9	9,98502	9,98334	9,98152	9,97856	9,97746	9,97522	9,97283	81
10	9,98375	9,98207	9,98025	9,97829	9,97619	9,97395	9,97156	80
11	9,98235	9,98067	9,97885	9,97689	9,97479	9,97255	9,97016	79
12	9,98080	9,97912	9,97730	9,97534	9,97324	9,97100	9,96861	78
13	9,97912	9,97744	9,97562	9,97366	9,97156	9,96932	9,96693	77
14	9,97730	9,97562	9,97380	9,97184	9,96974	9,96750	9,96511	76
15	9,97534	9,97366	9,97184	9,96988	9,96778	9,96554	9,96315	75
16	9,97324	9,97156	9,96974	9,96778	9,96568	9,96344	9,96105	74
17	9,97100	9,96932	9,96750	9,96554	9,96344	9,96120	9,95881	73
18	9,96861	9,96693	9,96511	9,96315	9,96105	9,95881	9,95642	72
19	9,96607	9,96439	9,96257	9,96061	9,95851	9,95627	9,95388	71
20	9,96339	9,96171	9,95989	9,95793	9,95583	9,95359	9,95120	70
21	9,96055	9,95881	9,95705	9,95509	9,95299	9,95075	9,94836	69
22	9,95757	9,95589	9,95407	9,95211	9,95001	9,94777	9,94538	68
23	9,95443	9,95275	9,95093	9,94897	9,94687	9,94463	9,94224	67
24	9,95113	9,94945	9,94763	9,94567	9,94357	9,94133	9,93894	66
25	9,94768	9,94600	9,94418	9,94222	9,94012	9,93788	9,93549	65
26	9,94406	9,94238	9,94056	9,93850	9,93650	9,93426	9,93187	64
27	9,94028	9,93860	9,93678	9,93482	9,93272	9,93048	9,92809	63
28	9,93633	9,93465	9,93283	9,93087	9,92877	9,92653	9,92414	62
29	9,93222	9,93054	9,92872	9,92676	9,92466	9,92242	9,92003	61
30	9,92793	9,92625	9,92443	9,92247	9,92037	9,91813	9,91574	60
31	9,92347	9,92179	9,91997	9,91801	9,91591	9,91367	9,91128	59
32	9,91882	9,91714	9,91532	9,91336	9,91126	9,90902	9,90663	58
33	9,91399	9,91231	9,91049	9,90853	9,90643	9,90419	9,90180	57
34	9,90897	9,90729	9,90547	9,90351	9,90141	9,89917	9,89678	56
35	9,90376	9,90208	9,90026	9,89830	9,89620	9,89396	9,89157	55
	78	77	76	75	74	73	72	sen

Segue: TAVOLA IV.

log (cos a cos b).

cos	0	1	2	3	4	5	sen
<i>a</i>				<i>b</i>			
0	0,00000	9,99993	9,99974	9,99940	9,99894	9,99834	90
1	9,99993	9,99986	9,99967	9,99933	9,99887	9,99827	89
2	9,99974	9,99967	9,99948	9,99914	9,99868	9,99808	88
3	9,99940	9,99933	9,99914	9,99880	9,99834	9,99774	87
4	9,99894	9,99887	9,99868	9,99834	9,99788	9,99728	86
5	9,99834	9,99827	9,99808	9,99774	9,99728	9,99668	85
6	9,99761	9,99754	9,99735	9,99701	9,99655	9,99595	84
7	9,99675	9,99668	9,99649	9,99615	9,99569	9,99509	83
8	9,99575	9,99568	9,99549	9,99515	9,99469	9,99409	82
9	9,99462	9,99455	9,99436	9,99402	9,99356	9,99296	81
10	9,99335	9,99328	9,99309	9,99275	9,99229	9,99169	80
11	9,99195	9,99188	9,99169	9,99135	9,99089	9,99029	79
12	9,99040	9,99033	9,99014	9,98980	9,98934	9,98874	78
13	9,98872	9,98865	9,98846	9,98812	9,98766	9,98706	77
14	9,98690	9,98683	9,98664	9,98630	9,98584	9,98524	76
15	9,98494	9,98487	9,98468	9,98434	9,98388	9,98328	75
16	9,98284	9,98277	9,98258	9,98224	9,98178	9,98118	74
17	9,98060	9,98053	9,98034	9,98000	9,97954	9,97894	73
18	9,97821	9,97814	9,97795	9,97761	9,97715	9,97655	72
19	9,97567	9,97560	9,97541	9,97507	9,97461	9,97401	71
20	9,97299	9,97292	9,97273	9,97239	9,97193	9,97133	70
21	9,97015	9,97008	9,96989	9,96955	9,96909	9,96849	69
22	9,96717	9,96710	9,96691	9,96657	9,96611	9,96551	68
23	9,96403	9,96396	9,96377	9,96343	9,96297	9,96237	67
24	9,96073	9,96066	9,96047	9,96013	9,95967	9,95907	66
25	9,95728	9,95721	9,95702	9,95668	9,95622	9,95562	65
26	9,95366	9,95359	9,95340	9,95306	9,95260	9,95200	64
27	9,94988	9,94981	9,94962	9,94928	9,94882	9,94822	63
28	9,94593	9,94586	9,94567	9,94533	9,94487	9,94427	62
29	9,94182	9,94175	9,94156	9,94122	9,94076	9,94016	61
30	9,93753	9,93746	9,93727	9,93693	9,93647	9,93587	60
31	9,93307	9,93300	9,93281	9,93247	9,93201	9,93141	59
32	9,92842	9,92835	9,92816	9,92782	9,92736	9,92676	58
33	9,92359	9,92352	9,92333	9,92299	9,92253	9,92193	57
34	9,91857	9,91850	9,91831	9,91797	9,91751	9,91691	56
35	9,91336	9,91329	9,91310	9,91276	9,91230	9,91170	55
	90	89	88	87	86	85	sen

Segue: TAVOLA IV.

log (cos a cos b).

cos	6	7	8	9	10	11	sen
<i>a</i>				<i>b</i>			
36	9,90557	9,90471	9,90371	9,90258	9,90131	9,89991	54
37	9,90086	9,90000	9,89900	9,89787	9,89660	9,89520	53
38	9,89414	9,89328	9,89228	9,89115	9,88988	9,88848	52
39	9,88811	9,88725	9,88625	9,88512	9,88385	9,88245	51
40	9,88186	9,88100	9,88000	9,87887	9,87760	9,87620	50
41	9,87539	9,87453	9,87353	9,87240	9,87113	9,86973	49
42	9,86868	9,86782	9,86682	9,86569	9,86442	9,86302	48
43	9,86174	9,86088	9,85988	9,85875	9,85748	9,85608	47
44	9,85454	9,85368	9,85208	9,85155	9,85028	9,84888	46
45	9,84700	9,84624	9,84524	9,84411	9,84284	9,84144	45
46	9,83938	9,83852	9,83752	9,83639	9,83512	9,83372	44
47	9,83139	9,83053	9,82953	9,82840	9,82713	9,82573	43
48	9,82312	9,82226	9,82126	9,82013	9,81886	9,81746	42
49	9,81455	9,81369	9,81269	9,81156	9,81029	9,80889	41
50	9,80568	9,80482	9,80382	9,80269	9,80142	9,80002	40
51	9,79648	9,79562	9,79462	9,79349	9,79222	9,79082	39
52	9,78695	9,78609	9,78509	9,78396	9,78269	9,78129	38
53	9,77707	9,77621	9,77521	9,77408	9,77281	9,77141	37
54	9,76683	9,76597	9,76497	9,76384	9,75257	9,76117	36
55	9,75620	9,75534	9,75434	9,75321	9,75194	9,75054	35
56	9,74517	9,74431	9,74331	9,74218	9,74091	9,73951	34
57	9,73372	9,73286	9,73186	9,73073	9,72946	9,72806	33
58	9,72182	9,72096	9,71996	9,71883	9,71756	9,71616	32
59	9,70945	9,70859	9,70759	9,70646	9,70519	9,70379	31
60	9,69658	9,69572	9,69472	9,69359	9,69232	9,69092	30
61	9,68318	9,68232	9,68132	9,68019	9,67892	9,67752	29
62	9,66922	9,66836	9,66736	9,66623	9,66496	9,66356	28
63	9,65466	9,65380	9,65280	9,65167	9,65040	9,64900	27
64	9,63945	9,63859	9,63759	9,63646	9,63519	9,63379	26
65	9,62356	9,62270	9,62170	9,62057	9,61930	9,61790	25
66	9,60692	9,60606	9,60506	9,60393	9,60266	9,60126	24
67	9,58949	9,58863	9,58763	9,58650	9,58523	9,58383	23
68	9,57119	9,57033	9,56933	9,56820	9,56693	9,56553	22
69	9,55194	9,55108	9,55008	9,54895	9,54768	9,54628	21
70	9,53166	9,53080	9,52980	9,52867	9,52740	9,52600	20
	84	83	82	81	80	79	sen

Segue: TAVOLA IV.

log (cos a cos b).

cos	6	7	8	9	10	11	sen
<i>a</i>				<i>b</i>			
0	9,99761	9,99675	9,99575	9,99462	9,99335	9,99195	90
1	9,99754	9,99668	9,99568	9,99455	9,99328	9,99188	89
2	9,99735	9,99649	9,99549	9,99436	9,99309	9,99169	88
3	9,99701	9,99615	9,99515	9,99402	9,99275	9,99135	87
4	9,99655	9,99569	9,99469	9,99356	9,99229	9,99089	86
5	9,99595	9,99509	9,99409	9,99296	9,99169	9,99029	85
6	9,99522	9,99436	9,99336	9,99223	9,99096	9,98956	84
7	9,99436	9,99350	9,99250	9,99137	9,99010	9,98870	83
8	9,99336	9,99250	9,99150	9,99037	9,98910	9,98770	82
9	9,99223	9,99137	9,99037	9,98924	9,98797	9,98657	81
10	9,99096	9,99010	9,98910	9,98797	9,98670	9,98530	80
11	9,98956	9,98870	9,98770	9,98657	9,98530	9,98390	79
12	9,98801	9,98715	9,98615	9,98502	9,98375	9,98235	78
13	9,98633	9,98547	9,98447	9,98334	9,98207	9,98067	77
14	9,98451	9,98365	9,98265	9,98152	9,98025	9,97885	76
15	9,98255	9,98169	9,98069	9,97956	9,97829	9,97689	75
16	9,98045	9,97959	9,97859	9,97746	9,97619	9,97479	74
17	9,97821	9,97735	9,97635	9,97522	9,97395	9,97255	73
18	9,97582	9,97496	9,97396	9,97283	9,97156	9,97016	72
19	9,97328	9,97242	9,97142	9,97029	9,96902	9,96762	71
20	9,97060	9,96974	9,96874	9,96761	9,96634	9,96494	70
21	9,96776	9,96690	9,96590	9,96477	9,96350	9,96210	69
22	9,96478	9,96392	9,96292	9,96179	9,96052	9,95912	68
23	9,96164	9,96078	9,95978	9,95865	9,95738	9,95598	67
24	9,95834	9,95748	9,95648	9,95535	9,95408	9,95268	66
25	9,95489	9,95403	9,95303	9,95190	9,95063	9,94923	65
26	9,95127	9,95041	9,94941	9,94828	9,94701	9,94561	64
27	9,94749	9,94663	9,94563	9,94450	9,94323	9,94183	63
28	9,94354	9,94268	9,94168	9,94055	9,93928	9,93788	62
29	9,93943	9,93857	9,93757	9,93644	9,93517	9,93377	61
30	9,93514	9,93428	9,93328	9,93215	9,93088	9,92948	60
31	9,93068	9,92982	9,92882	9,92769	9,92642	9,92502	59
32	9,92603	9,92517	9,92417	9,92304	9,92177	9,92037	58
33	9,92120	9,92034	9,91934	9,91821	9,91694	9,91554	57
34	9,91618	9,91532	9,91432	9,91319	9,91192	9,91052	56
35	9,91097	9,91011	9,90911	9,90798	9,90671	9,90531	55
	84	83	82	81	80	79	sen

Segue: TAVOLA IV.

log (cos a cos b).

cos	0	1	2	3	4	5	sen
<i>a</i>			<i>b</i>				
36	9,90796	9,90789	9,90770	9,90736	9,90690	9,90630	54
37	9,90325	9,90318	9,90299	9,90265	9,90219	9,90159	53
38	9,89653	9,89646	9,89627	9,89593	9,89547	9,89487	52
39	9,89050	9,89043	9,89024	9,88990	9,88944	9,88884	51
40	9,88425	9,88418	9,88399	9,88365	9,88319	9,88259	50
41	9,87778	9,87771	9,87752	9,87718	9,87672	9,87612	49
42	9,87107	9,87100	9,87081	9,87047	9,87001	9,86941	48
43	9,86413	9,86406	9,86387	9,86353	9,86307	9,86247	47
44	9,85693	9,85686	9,85667	9,85633	9,85587	9,85527	46
45	9,84949	9,84942	9,84923	9,84889	9,84843	9,84783	45
46	9,84177	9,84170	9,84151	9,84117	9,84071	9,84011	44
47	9,83378	9,83371	9,83352	9,83318	9,83272	9,83212	43
48	9,82551	9,82544	9,82525	9,82491	9,82445	9,82385	42
49	9,81694	9,81687	9,81668	9,81634	9,81588	9,81528	41
50	9,90807	9,80800	9,80781	9,80747	9,80701	9,80641	40
51	9,79887	9,79880	9,79861	9,79827	9,79781	9,79721	39
52	9,78934	9,78927	9,78908	9,78874	9,78828	9,78768	38
53	9,77946	9,77939	9,77920	9,77886	9,77840	9,77780	37
54	9,76922	9,76915	9,76896	9,76862	9,76816	9,76756	36
55	9,75859	9,75852	9,75833	9,75799	9,75753	9,75693	35
56	9,74756	9,74749	9,74730	9,74696	9,74650	9,74590	34
57	9,73611	9,73604	9,73585	9,73551	9,73505	9,73445	33
58	9,72421	9,72414	9,72395	9,72361	9,72315	9,72255	32
59	9,71184	9,71177	9,71158	9,71124	9,71078	9,71018	31
60	9,69897	9,69890	9,69871	9,69837	9,69791	9,69731	30
61	9,68557	9,68550	9,68531	9,68497	9,68451	9,68391	29
62	9,67161	9,67154	9,67135	9,67101	9,67055	9,66995	28
63	9,65705	9,65698	9,65679	9,65645	9,65599	9,65539	27
64	9,64184	9,64177	9,64158	9,64124	9,64078	9,64018	26
65	9,62595	9,62588	9,62569	9,62535	9,62489	9,62429	25
66	9,60931	9,60924	9,60905	9,60871	9,60825	9,60765	24
67	9,59188	9,59181	9,59162	9,59128	9,59082	9,59022	23
68	9,57358	9,57351	9,57332	9,57298	9,57252	9,57192	22
69	9,55433	9,55426	9,55407	9,55373	9,55327	9,55267	21
70	9,53405	9,53398	9,53379	9,53345	9,53299	9,53239	20
	90	89	88	87	86	85	sen

Segue: TAVOLA IV.

log (cos a cos b).

cos	12	13	14	15	16	17	18	sen
<i>a</i>				<i>b</i>				
36	9,89836	9,89668	9,89486	9,89290	9,89080	9,88856	9,88617	54
37	9,89275	9,89107	9,88925	9,88729	9,88519	9,88295	9,88056	53
38	9,88693	9,88525	9,88343	9,88147	9,87937	9,87713	9,87474	52
39	9,88090	9,87922	9,87740	9,87544	9,87334	9,87110	9,86871	51
40	9,87465	9,87297	9,87115	9,86919	9,86709	9,86485	9,86246	50
41	9,86818	9,86650	9,86468	9,86272	9,86062	9,85838	9,85599	49
42	9,86147	9,85979	9,85797	9,85601	9,85391	9,85167	9,84928	48
43	9,85453	9,85285	9,85103	9,84907	9,84697	9,84473	9,84234	47
44	9,84733	9,84565	9,84383	9,84187	9,83977	9,83753	9,83514	46
45	9,83989	9,83821	9,83639	9,83443	9,83233	9,83009	9,82770	45
46	9,83217	9,83049	9,82867	9,82671	9,82461	9,82237	9,81998	44
47	9,82418	9,82250	9,82068	9,81872	9,81662	9,81438	9,81199	43
48	9,81591	9,81423	9,81241	9,81045	9,80835	9,80611	9,80372	42
49	9,80734	9,80566	9,80384	9,80188	9,79978	9,79754	9,79515	41
50	9,79847	9,79679	9,79497	9,79301	9,79091	9,78867	9,78628	40
51	9,78927	9,78759	9,78577	9,78381	9,78171	9,77947	9,77708	39
52	9,77974	9,77806	9,77624	9,77428	9,77218	9,76994	9,76755	38
53	9,76986	9,76818	9,76636	9,76442	9,76230	9,76006	9,75761	37
54	9,75962	9,75794	9,75612	9,75416	9,75206	9,74982	9,74743	36
55	9,74899	9,74731	9,74549	9,74353	9,74143	9,73919	9,73680	35
56	9,73796	9,73628	9,73446	9,73250	9,73040	9,72816	9,72577	34
57	9,72651	9,72483	9,73301	9,72105	9,71895	9,71671	9,71432	33
58	9,71461	9,71293	9,71111	9,70915	9,70705	9,70481	9,70242	32
59	9,70224	9,70056	9,69874	9,69678	9,69468	9,69244	9,69005	31
60	9,68937	9,68769	9,68587	9,68391	9,68181	9,67957	9,67718	30
61	9,67597	9,67429	9,67247	9,67051	9,66841	9,66617	9,66378	29
62	9,66201	9,66033	9,65851	9,65655	9,65445	9,65221	9,64982	28
63	9,64745	9,64577	9,64395	9,64199	9,63989	9,63765	9,63526	27
64	9,63224	9,63056	9,62874	9,62678	9,62468	9,62244	9,62005	26
65	9,61635	9,61467	9,61285	9,61089	9,60879	9,60655	9,60416	25
66	9,59971	9,59803	9,59621	9,59425	9,59215	9,58991	9,58752	24
67	9,58228	9,58060	9,57878	9,57682	9,57472	9,57248	9,57009	23
68	9,56398	9,56230	9,56048	9,55852	9,55642	9,55418	9,55179	22
69	9,54473	9,54305	9,54123	9,53927	9,53717	9,53493	9,53254	21
70	9,52445	9,52277	9,52095	9,51899	9,51689	9,51465	9,51226	20
	78	77	76	75	74	73	72	sen

Segue: TAVOLA IV.

log (cos a cos b).

cos	19	20	21	22	23	24	25	sen
<i>a</i>				<i>b</i>				
0	9,97567	9,97299	9,97015	9,96717	9,96403	9,96073	9,95728	90
1	9,97560	9,97292	9,97008	9,96710	9,96396	9,96066	9,95721	89
2	9,97541	9,97273	9,96989	9,96691	9,96377	9,96047	9,95702	88
3	9,97507	9,97239	9,96955	9,96657	9,96343	9,96013	9,95668	87
4	9,97461	9,97193	9,96909	9,96611	9,96297	9,95967	9,95622	86
5	9,97401	9,97133	9,96849	9,96551	9,96237	9,95907	9,95562	85
6	9,97328	9,97060	9,96776	9,96478	9,96164	9,95834	9,95489	84
7	9,97242	9,96974	9,96690	9,96392	9,96078	9,95748	9,95403	83
8	9,97142	9,96874	9,96590	9,96292	9,95978	9,95648	9,95303	82
9	9,97029	9,96761	9,96477	9,96179	9,95865	9,95535	9,95190	81
10	9,96902	9,96634	9,96350	9,96052	9,95738	9,95408	9,95063	80
11	9,96762	9,96494	9,96210	9,95912	9,95598	9,95268	9,94923	79
12	9,96607	9,96339	9,96055	9,95757	9,95443	9,95113	9,94768	78
13	9,96439	9,96171	9,95887	9,95589	9,95275	9,94945	9,94600	77
14	9,96257	9,95989	9,95705	9,95407	9,95093	9,94763	9,94418	76
15	9,96061	9,95793	9,95509	9,95211	9,94897	9,94567	9,94222	75
16	9,95851	9,95583	9,95299	9,95001	9,94687	9,94357	9,93962	74
17	9,95627	9,95359	9,95075	9,94777	9,94463	9,94133	9,93788	73
18	9,95388	9,95120	9,94836	9,94538	9,94224	9,93894	9,93549	72
19	9,95134	9,94866	9,94582	9,94284	9,93970	9,93640	9,93295	71
20	9,94866	9,94598	9,94314	9,94016	9,93702	9,93372	9,93027	70
21	9,94582	9,94314	9,94030	9,93732	9,93418	9,93088	9,92743	69
22	9,94284	9,94016	9,93732	9,93434	9,93120	9,92790	9,92445	68
23	9,93970	9,93702	9,93418	9,93120	9,92806	9,92476	9,92131	67
24	9,93640	9,93372	9,93088	9,92790	9,92476	9,92146	9,91801	66
25	9,93295	9,94027	9,93743	9,93445	9,93131	9,92801	9,91456	65
26	9,92933	9,92665	9,92381	9,92083	9,91769	9,91439	9,91094	64
27	9,92555	9,92287	9,92003	9,91705	9,91391	9,91061	9,90716	63
28	9,92160	9,91892	9,91608	9,91310	9,90996	9,90666	9,90321	62
29	9,91749	9,91480	9,91197	9,90899	9,90585	9,90255	9,89910	61
30	9,91320	9,91052	9,90768	9,90470	9,90156	9,89836	9,89481	60
31	9,90874	9,90606	9,90322	9,90024	9,89710	9,89380	9,89035	59
32	9,90409	9,90141	9,89857	9,89559	9,89245	9,88915	9,88570	58
33	9,89926	9,89658	9,89374	9,89076	9,88762	9,88432	9,88087	57
34	9,89424	9,89156	9,88872	9,88574	9,88260	9,87930	9,87585	56
35	9,88903	9,88635	9,88351	9,88053	9,87739	9,87409	9,87064	55
	71	70	69	68	67	66	65	sen

Segue: TAVOLA IV.

log (cos a cos b).

cos	19	20	21	22	23	24	25	sen
<i>a</i>				<i>b</i>				
36	9,88363	9,88095	9,87811	9,87513	9,87199	9,86869	9,86524	54
37	9,87802	9,87534	9,87250	9,86952	9,86638	9,86308	9,85963	53
38	9,87220	9,86952	9,86668	9,86370	9,86056	9,85726	9,85381	52
39	9,86617	9,86349	9,86065	9,85767	9,85453	9,85123	9,84778	51
40	9,85992	9,85724	9,85440	9,85142	9,84828	9,84498	9,84153	50
41	9,85345	9,85077	9,84793	9,84495	9,84181	9,83851	9,83506	49
42	9,84674	9,84406	9,84122	9,83824	9,83510	9,83180	9,82835	48
43	9,83980	9,83712	9,83428	9,83130	9,82816	9,82486	9,82141	47
44	9,83260	9,82992	9,82708	9,82410	9,82096	9,81766	9,81421	46
45	9,82516	9,82248	9,81964	9,81666	9,81352	9,81022	9,80677	45
46	9,81744	9,81476	9,81192	9,80894	9,80580	9,80250	9,79905	44
47	9,80941	9,80677	9,80393	9,80095	9,79781	9,79451	9,79106	43
48	9,80118	9,79850	9,79566	9,79268	9,78954	9,78624	9,78279	42
49	9,79261	9,78993	9,78709	9,78411	9,78097	9,77767	9,77422	41
50	9,78374	9,78106	9,77822	9,77524	9,77210	9,76880	9,76535	40
51	9,76454	9,76186	9,76902	9,76604	9,76290	9,75960	9,75615	39
52	9,76501	9,76233	9,75949	9,75651	9,75337	9,75007	9,74662	38
53	9,75513	9,75245	9,74961	9,74663	9,74349	9,74019	9,73674	37
54	9,74489	9,74221	9,73937	9,73639	9,73325	9,72995	9,72650	36
55	9,73426	9,73158	9,72874	9,72576	9,72262	9,71932	9,71587	35
56	9,72323	9,72055	9,71771	9,71473	9,71159	9,70833	9,70484	34
57	9,71178	9,70910	9,70626	9,70328	9,70014	9,69684	9,69339	33
58	9,69988	9,69720	9,69436	9,69138	9,68824	9,68494	9,68149	32
59	9,68977	9,68483	9,68199	9,67901	9,67587	9,67257	9,66912	31
60	9,67464	9,67196	9,66912	9,66614	9,66300	9,65970	9,65625	30
61	9,66124	9,65856	9,65572	9,65274	9,64960	9,64630	9,64285	29
62	9,64728	9,64460	9,64176	9,63878	9,63564	9,63234	9,62889	28
63	9,63272	9,63004	9,62720	9,62422	9,62108	9,61778	9,61433	27
64	9,61751	9,61483	9,61199	9,60901	9,60587	9,60257	9,59912	26
65	9,60162	9,59894	9,59610	9,59312	9,58998	9,58668	9,58323	25
66	9,58498	9,58230	9,57946	9,57648	9,57334	9,57004	9,56659	24
67	9,56755	9,56487	9,56203	9,55905	9,55591	9,55261	9,54916	23
68	9,54925	9,54657	9,54373	9,54075	9,53761	9,53431	9,53086	22
69	9,53000	9,52732	9,52448	9,52150	9,51836	9,51506	9,51161	21
70	9,50972	9,50704	9,50420	9,50122	9,49808	9,49478	9,49133	20
	71	70	69	68	67	66	65	sen

TAVOLA V. — Risoluzione del triangolo astronomico.

Logaritmi di *sen* e *cos*.

sen	lg	cos	sen	lg	cos	sen	lg	cos
0	—	90	30	9,69897	60	60	9,93753	30
1	8,24186	89	31	9,71184	59	61	9,94182	29
2	8,54282	88	32	9,72421	58	62	9,94593	28
3	8,71880	87	33	9,73611	57	63	9,94988	27
4	8,84358	86	34	9,74756	56	64	9,95366	26
5	8,94030	85	35	9,75859	55	65	9,95728	25
6	9,01923	84	36	9,76922	54	66	9,96073	24
7	9,08589	83	37	9,77946	53	67	9,96403	23
8	9,14356	82	38	9,78934	52	68	9,96717	22
9	9,19433	81	39	9,79887	51	69	9,97015	21
10	9,23967	80	40	9,80807	50	70	9,97299	20
11	9,28060	79	41	9,81694	49	71	9,97567	19
12	9,31788	78	42	9,82551	48	72	9,97821	18
13	9,35209	77	43	9,83378	47	73	9,98060	17
14	9,38368	76	44	9,84177	46	74	9,98284	16
15	9,41300	75	45	9,84949	45	75	9,98494	15
16	9,44034	74	46	9,85693	44	76	9,98690	14
17	9,46594	73	47	9,86413	43	77	9,98872	13
18	9,48998	72	48	9,87107	42	78	9,99040	12
19	9,51264	71	49	9,87778	41	79	9,99195	11
20	9,53405	70	50	9,88425	40	80	9,99335	10
21	9,55433	69	51	9,89050	39	81	9,99462	9
22	9,57358	68	52	9,89563	38	82	9,99575	8
23	9,59188	67	53	9,90235	37	83	9,99675	7
24	9,60931	66	54	9,90796	36	84	9,99761	6
25	9,62595	65	55	9,91336	35	85	9,99834	5
26	9,64184	64	56	9,91857	34	86	9,99894	4
27	9,65705	63	57	9,92359	33	87	9,99940	3
28	9,67161	62	58	9,92842	32	88	9,99974	2
29	9,68557	61	59	9,93307	31	89	9,99993	1
						90	0,00000	0
sen	lg	cos	sen	lg	cos	sen	lg	cos