

Table A

Eigenvalues for Disturbances with a Symmetric Stream Function

Note: N = 30 unless otherwise noted.

α	R	$\text{Re}(c_1)$	$\text{Im}(c_1)$
2.40	5000	0.326685	0.010661
	8000	0.300997	0.006434
	11600	0.281345	0.005522
	12800	0.276228	0.005601
	16000	0.264740	0.006307
	20000	0.253354	0.007642
	22000	0.248500	0.008396
	28000*	0.236376	0.010571
	34000*	0.226363	0.012775
70000**	0.206167	0.020975	
2.20	3200	0.338366	0.020590
	5000	0.314798	0.010759
	8000	0.290697	0.004021
	11600	0.272386	0.001124
	12800	0.267655	0.000693
	16000	0.257115	0.000208
	20000	0.246815	0.000387
	22000	0.242481	0.000659
	28000	0.231658	0.001856
	34000	0.223049	0.003339
	40000	0.215881	0.004930
	46000	0.209731	0.006565
	52000	0.204345	0.008249
2.16	5000	0.312205	0.011169
	8000	0.288400	0.003927
	12000	0.268708	0.000427
	16000	0.255265	-0.000639
	22000	0.240875	-0.000539
	34000	0.221877	0.001659
	40000	0.214915	0.003074
	46000	0.208964	0.004562
	52000	0.203770	0.006109

* N = 40 , ** N = 50

Table A continued

α	R	$\text{Re}(c_1)$	$\text{Im}(c_1)$
2.12	5000	0.309543	0.011714
	8000	0.286032	0.003971
	12000	0.266583	0.000031
	16000	0.253322	-0.001350
	22000	0.239157	-0.001603
	34000	0.220548	0.000103
	40000	0.213769	0.001334
	46000	0.207995	0.002661
	52000	0.203972	0.004061
2.08	5000	0.306810	0.012396
	8000	0.283593	0.004154
	12000	0.264381	-0.000226
	16000	0.251292	-0.001921
	22000	0.237335	-0.002527
	34000	0.219076	-0.001318
	40000	0.212458	-0.000277
	46000	0.206841	0.000883
	52000	0.201967	0.002127
2.04	5000	0.304008	0.013219
	8000	0.281086	0.004480
	12000	0.262106	-0.000338
	16000	0.249180	-0.002348
	22000	0.235417	-0.003308
	34000	0.217473	-0.002596
	40000	0.210999	-0.001748
	46000	0.205518	-0.000759
	52000	0.200776	0.000327
2.00	3200	0.323104	0.026208
	5000	0.301135	0.014182
	8000	0.278511	0.004952
	11600	0.259294	0.000044
	12800	0.256854	-0.000924
	16000	0.246991	-0.002628
	20000*	0.237491	-0.003725
	22000	0.233409	-0.003940
	28000	0.223504	-0.004100
	30000	0.220227	-0.004018
	34000	0.215752	-0.003726

* N = 40 , ** N = 50

Table A continued

α	R	$\text{Re}(c_1)$	$\text{Im}(c_1)$
	40000	0.209405	-0.003071
	46000	0.204045	-0.002253
	52000	0.199417	-0.001326
	70000**	0.18560	0.000970
1.90	5000	0.293635	0.017216
	8000	0.271783	0.006784
	12000	0.253602	0.000440
	16000	0.241209	-0.002664
	22000	0.228041	-0.004850
	34000	0.211000	-0.005865
	40000	0.204914	-0.005687
	46000	0.199797	-0.005294
	52000	0.195396	-0.004759
1.80	5000	0.285655	0.021146
	8000	0.264637	0.009575
	11600	0.248491	0.002695
	12800	0.244313	0.001197
	16000	0.235022	-0.001715
	20000	0.226003	-0.003986
	22000	0.222237	-0.004765
	28000	0.212945	-0.006261
	34000	0.205715	-0.006984
	40000	0.199835	-0.007271
	46000	0.194901	-0.007287
	52000	0.190668	-0.007125
1.70	8000	0.257047	0.013344
	12000	0.240103	0.004903
	16000	0.228464	0.000262
	22000	0.216056	-0.003642
	34000	0.200006	-0.007043
	40000	0.194297	-0.007779
	46000	0.189513	-0.008190
	52000	0.185412	-0.008381
1.60	8000	0.248961	0.018083
	11600	0.234087	0.009387
	16000	0.221537	0.003303
	22000	0.209531	-0.001441

* N = 40 , ** N = 50

Table A continued

α	R	$\text{Re}(c_1)$	$\text{Im}(c_1)$
	28000	0.200771	-0.004232
	34000	0.193947	-0.006006
	40000	0.188397	-0.007180
	46000	0.183745	-0.007971
	52000	0.179757	-0.008502
1.50	16000	0.214209	0.007431
	22000	0.202662	0.001873
	28000	0.194186	-0.001550
	34000	0.187581	-0.003835
	40000	0.182192	-0.005440
	46000	0.177670	-0.006603
	52000	0.173790	-0.007463
1.40	16000	0.206402	0.012634
	22000	0.195405	0.006318
	28000	0.187287	0.002288
	34000	0.180914	-0.000498
	40000	0.175706	-0.002575
	46000	0.171326	-0.004054
	52000	0.167561	-0.005236
1.20	22000	0.179247	0.018405
	28000	0.172095	0.013381
	34000	0.166406	0.009709
	40000	0.161706	0.006901
	46000	0.157716	0.004683
	52000	0.154266	0.002885
1.00	22000	0.159930	0.032763
	28000	0.153901	0.027649
	34000	0.149157	0.023685
	40000	0.145207	0.020488
	46000	0.141862	0.017854
	52000	0.138947	0.015635
	70000**	0.132042	0.010657

* N = 40 , ** N = 50

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Table B

Eigenvalues for Disturbances with an
Antisymmetric Stream Function

Note: N = 30 in all cases.

a	R	Re(c_4)	Im(c_4)
2.40	5000	0.935396	0.063719
	8000	0.948943	0.050516
	12000	0.958319	0.041325
	16000	0.963906	0.035829
	22000	0.969220	0.030588
	28000	0.972718	0.027132
	34000	0.975242	0.024635
	40000	0.977175	0.022721
	46000	0.978716	0.021193
	52000	0.979982	0.019938
2.20	5000	0.932499	0.066609
	8000	0.946660	0.052801
	12000	0.956458	0.043190
	16000	0.962296	0.037444
	22000	0.967848	0.031964
	28000	0.971503	0.028352
	34000	0.974140	0.025741
	40000	0.976159	0.023740
	46000	0.977768	0.022144
	52000	0.979090	0.020832
2.00	5000	0.929178	0.069913
	8000	0.944043	0.055414
	12000	0.954326	0.045324
	16000	0.960451	0.039292
	22000	0.966276	0.033540
	28000	0.970109	0.029748
	40000	0.974993	0.024908
	46000	0.976682	0.023233
	52000	0.978069	0.021856

Table B continued

α	R	$\text{Re}(c_4)$	$\text{Im}(c_4)$
1.80	5000	0.925315	0.073742
	8000	0.941000	0.058446
	12000	0.951846	0.047801
	16000	0.958305	0.041437
	22000	0.964448	0.035369
	28000	0.968489	0.031369
	34000	0.971406	0.028479
	40000	0.973639	0.026264
	46000	0.975419	0.024498
	52000	0.976881	0.023045
1.60	5000	0.920747	0.078255
	8000	0.937402	0.062020
	12000	0.948914	0.050722
	16000	0.955769	0.043968
	22000	0.962287	0.037528
	28000	0.966574	0.033283
	34000	0.969669	0.030216
	40000	0.972038	0.027866
	46000	0.973926	0.025991
	52000	0.975477	0.024450
1.40	5000	0.915228	0.083686
	8000	0.933055	0.066325
	12000	0.945373	0.054242
	16000	0.952706	0.047018
	22000	0.959677	0.040131
	28000	0.964262	0.035591
	34000	0.967572	0.032311
	40000	0.970104	0.029797
	46000	0.972123	0.027792
	52000	0.973782	0.026144