Console

e0	q1	e1	q2	e2	q3	e3
0.0000000000	1.5000000000	0.0000000000	0.0000000000	-0.0555555556	-0.3750000000	0.0000000000
0.0000000000	1.1250000000	0.0555555556	0.3194444444	-0.0096618357	-0.1064814815	0.0000000000
0.0000000000	1.0185185185	0.0652173913	0.4162640902	-0.0015137499	-0.0435185185	0.0000000000
0.0000000000	0.9750000000	0.0667311412	0.4582688588	-0.0002204258	-0.0204545455	0.0000000000
0.0000000000	0.9545454545	0.0669515670	0.4785029785	-0.0000308417	-0.0102536353	0.0000000000
0.0000000000	0.9442918193	0.0669824087	0.4887257720	-0.0000042270	-0.0053068508	0.0000000000
0.0000000000	0.9389849685	0.0669866357	0.4940283958	-0.0000005732	-0.0027920947	0.0000000000
0.0000000000	0.9361928737	0.0669872088	0.4968199174	-0.0000000773	-0.0014817121	0.0000000000
	0.9347111617	0.0669872861	0.4983015522			

0.000000000000	-0.0007899119	-0.0000000104	0.0000000000	0.9339212498	0.4990914537	0.0669872965
0.000000000000	-0.0004221322	-0.0000000014	0.0000000000	0.9334991176	0.4995135845	0.0669872979
0.000000000000	-0.0002258821	-0.0000000002	0.0000000000	0.9332732355	0.4997394665	0.0669872981
0.000000000000	-0.0001209530	-0.0000000000	0.0000000000	0.9331522824	0.4998604195	0.0669872981
0.000000000002	-0.0000647907	-0.0000000000	0.0000000000	0.9330874917	0.4999252102	0.0669872981
0.000000000000	-0.0000347133	-0.0000000000	0.0000000000	0.9330527784	0.4999599235	0.0669872981

The exact roots are   0.9330527784   and   0.0669872981