

A formed through QHQ^* =

9.0000	0.3333	0.2500	0.2000	0.1667
0.3333	9.0000	0.2000	0.1667	0.1429
0.2500	0.2000	9.0000	0.1429	0.1250
0.2000	0.1667	0.1429	9.0000	0.1111
0.1667	0.1429	0.1250	0.1111	9.0000

Hessenberg matrix =

9.0000	-0.4913	0	0	0
-0.4913	9.4289	0.1080	-0.0000	0.0000
0	0.1080	8.8463	0.0400	0
0	0	0.0400	8.8507	-0.0208
0	0	0	-0.0208	8.8741

W =

0	0	0
0.9161	0	0
0.2777	-0.8281	0
0.2222	-0.3721	-0.7992
0.1851	-0.4194	-0.6010

Q =

1.0000	0	0	0	0
0	-0.6785	0.6754	-0.2850	-0.0479
0	-0.5088	-0.1666	0.7519	0.3847
0	-0.4071	-0.4524	0.0300	-0.7929
0	-0.3392	-0.5580	-0.5938	0.4701

$\| Q^*Q - I \| = 6.31e-16$

$\| A - QHQ^* \| = 7.87e-15$

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