

# Matrix Computations MA423 Lab 06

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## Ques.4

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>> q4
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Question 4

Matrix	Size	norm(A-QR)	norm(Q <sup>t</sup> *Q - I <sub>m</sub> )	norm(tril(R, -1))	norm(Q-Q <sub>hat</sub> )	norm(R-R <sub>hat</sub> )
18	9	1.836e-15	5.8503e-16	0	1.8256e-15	1.948e-15
6	5	5.6284e-16	4.591e-16	0	5.6064e-16	3.6509e-16
13	8	1.6018e-15	5.8269e-16	0	7.4176e-16	1.7006e-15
5	5	5.9868e-16	3.2212e-16	0	6.6904e-16	5.8476e-16
11	8	8.0222e-16	4.0333e-16	0	1.0881e-15	9.8319e-16
16	8	7.8851e-16	4.2106e-16	0	7.9775e-16	8.8327e-16
15	7	1.1936e-15	7.2051e-16	0	1.0233e-15	8.0279e-16
14	9	2.779e-15	7.1313e-16	0	2.4058e-15	2.7752e-15
12	9	9.3743e-16	4.9442e-16	0	1.2235e-15	7.3403e-16
17	10	3.3571e-15	6.4483e-16	0	1.1268e-15	3.3672e-15

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