3)

b) n=1000

A type:	Full	Full	Full	Sparse
Solve method:	Evil inverse	GE scheme	A\f	A\f
Time (s):	0.1	15.27	0.021	0.000056

n=2000

A type:	Full	Full	Full	Sparse
Solve method:	Evil inverse	GE scheme	A\f	A\f
Time (s):	0.695	133.65	0.114	0.000082

n=5000

A type:	Full	Full	Full	Sparse
Solve method:	Evil inverse	GE scheme	A\f	A\f
Time (s):	8.27	>25 min.	1.6494	0.000206

For set n, sparse backslash is fastest, then full backslash, then full evil inverse and the slowest one is the full Gaussian Elimination Scheme.

As n increases, it seems like sparse backslash time increase linearly, and full backslash quadratically. The full evil inverse and especially the full GE scheme time increase much faster than n.