n=20;
heuristic
Warning: Matrix is close to singular or badly scaled.
   Results may be inaccurate. RCOND = 1.007246e-019.
   In D:\MATLAB6p1\work\linsystems\heuristic.m at line 9
Warning: Matrix is close to singular or badly scaled.
   Results may be inaccurate. RCOND = 1.007246e-019.
   In D:\MATLAB6p1\work\linsystems\heuristic.m at line 12
cond =
   9.9281e+018
rel_error =
            89.7581
n=10;
heuristic
cond =
   6.1184e+008
rel_error =
            1.9298e-009
n=15;
heuristic
Warning: Matrix is close to singular or badly scaled.
   Results may be inaccurate. RCOND = 6.510529e-017.
   In D:\MATLAB6p1\work\linsystems\heuristic.m at line 9
Warning: Matrix is close to singular or badly scaled.
   Results may be inaccurate. RCOND = 6.510529e-017.
   In D:\MATLAB6p1\work\linsystems\heuristic.m at line 12
cond =
   1.5360e+016
rel_error =
            0.0344
n=14;
heuristic
cond =
1.0364e+013

rel_error =

1.5685e-005