```
k = [678];
display('with QR');
for i = 1 : 3
    A = [1 1; 10^{(-k(i))} 0; 0 10^{(-k(i))}];
    b = [-10^{(-k(i))}; 1+10^{(-k(i))}; 1-10^{(-k(i))}];
    x = A b
end
display('without QR');
for i = 1 : 3
    A = [1 1; 10^{(-k(i))} 0; 0 10^{(-k(i))}];
    b = [-10^{(-k(i))}; 1+10^{(-k(i))}; 1-10^{(-k(i))}];
    x = (A'*A) \setminus (A'*b)
end
with QR
x =
    1.0000
   -1.0000
x =
    1.0000
   -1.0000
x =
    1.0000
   -1.0000
without QR
x =
   0.9999
   -0.9999
x =
    1.0120
   -1.0120
Warning: Matrix is singular to working precision.
x =
```

Inf -Inf

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