```
>> A=Vandermonde(5);
>> [Qm,Rm]=mgs(A);
>> [Qc,Rc]=clgs(A);
>> [Q,R]=qr(A);
>> [Qp,Rp]=qr_plus(Q,R);
>> norm(A-Qm*Rm,2)

ans =

   1.1861e-16

>> norm(A-Qc*Rc,2)

ans =

   1.1530e-16

>> norm(A-Q*R,2)

ans =

   1.0040e-15

>> norm(Qm-Qp,2)

ans =

   1.3330e-14

>> norm(Qc-Qp,2)

ans =

    1.7603

>> norm(Rm-Rp,2)

ans =

   6.5404e-16

>> norm(Rc-Rp,2)

ans =

    1.4815

>> norm(Qm'*Qm-eye(5),2)

ans =
```

```
    1.2736e-14

>> norm(Qc'*Qc-eye(5),2)

ans =

    2.8369

>> norm(Q'*Q-eye(5),2)

ans =

    4.7902e-16

>>
```