Gi in a greflenine of-inverse. We have to show that Go 2 QR PL for some QR and PL

Suppose me want to show QR P2 in a reflexive

A ar pil A

2) PQQP PL-1 PQ

=) PQ

=> A

P(QE'PL') = P(QE') = 97

because ar Pi' in a so-inverse ((ar Pi')>97

so P(QR'P2') =97.

2) QR P2 1 M a szellenin ginverse.

ablation have abla a lead inverse of a

G=GAG=(GP)(Qb)

qualitatione left interne of P

$$5(a)$$
  $(A^+)^T = (A^T)^{\dagger}$ 

$$\mathbb{Q}^{+} = (\theta^{+})^{T}$$

(i) 
$$BB^{+}B = A^{T}(A^{+})^{T}A^{T}$$
  
=  $(AA^{+}A)^{T} = A^{T} = B$ 

(e) bul know 
$$(A^{+})^{T} = (A^{T})^{+}$$

if  $A$  is symmetric

 $(\Delta + 1T - (A^{T})^{+} - A^{+}) = (\Delta + 1)^{T}$ 

2 R(A)

if S ST and d(s),d(f) then S=T

if A is symmetric and identicent