```
(, a, Q(010)-10(010) = 109p(x/1)
  P(A1B) = P(A,B)
                                    > | 09 0( X10) = | 09 0(Z, X10) - | 09 p(Z17,0)
   P(B)= P(A,B)
                                     E[logp(x10)] = E[logp(z,x10)] - E[logp(z1x,0)]
   So: A=Z, B=xlo,

\begin{cases}
\varrho(x|\theta) = \varrho(z, x|\theta) \\
\varrho(z|x,\theta)
\end{cases} = \log(\varrho(x|\theta)) = \log(\varrho(z, x|\theta))

\begin{cases}
\varrho(x|\theta) = \varrho(z, x|\theta) \\
\varrho(z|x,\theta)
\end{cases}

45 \text{ desired}

 \mathbb{E}_{z_1 x_1 \theta_t} [\log \rho(z_1 x_1 \theta)] \leq \mathbb{E}_{z_1 x_1 \theta_t} [\log \rho(z_1 x_1 \theta_t)]
          \int_{\rho} (z|x|\theta_t) |agp(z|x|\theta) - \int_{\rho} (z|x|\theta_t) |agp(z|x|\theta_t) \leq Q
                                                          let p(z|xj0) = x, p(z|xj0)=xt
              Sp(21x, 0, 109p(z1x,0) & 0
               5xt log x 50
by log (x) 5x-1
5xt (x-1) 60
               5 x - x<sub>6</sub> £ 0
                Sx - Sx 50.
                                                              1-150 -050
                Sp(21x;0) - Sp(21x;0) 60
   C. logp(X10t1)-logp(X10t) ZQ(0t110t)-Q(0t10t)
              Meplace Lags by port A.
           Q(\theta_{t+1}|\theta_t) - M(\theta_{t+1}|\theta_t) - Q(\theta_t|\theta_t) + M(\theta_t|\theta_t) = Q(\theta_{t+1}|\theta_t) - Q(\theta_t|\theta_t)
                                         -m(\theta_{t+1}|\theta_t)+m(\theta_t|\theta_t) \geq 0
                                                                            M(\theta_t | \theta_t) \geq M(\theta_{t_1} | \theta_t)
```

D. lage(X10/21) Zlage(X10/2)

me See by raw reduction, Since all raws have on I Calumn, me have full rank, so the matrixis identifiable.

how reduce