Information problems \& The Phillips Curve
Two. module device a phillips enure, not by imposing constraints on price adj justment,
but by imposing constraints on information available to agents.
"Sticky in Formation" [Mankiw \& Reis, QJE Z002)
Monopolist pricesctter, $p_{i}^{*}=p+\phi y$ \& $y=m-p$
lout cannot (or chooses not $x_{1}$ ) observe current
P,y,m (macroeconomic, aggregate variables)
priesetter observes there only at intervals, when random bell rings as in Calve model. At that time, observe marraceonomy \& write down a planned path for $p_{i}$ which will be followed until bell rings again, info upalated hew plan made.
planned path can allow pi to vary From period to period.
Given constraint on info (or wilful ignorance), rae rations) expectations,

INFO MROBLEMS(cont)
Lucas Supply Frration (Lucas, JEt 1972)
perfect competition in grot rat markets
Goods produced by "yeomen barbers" who take price os given, want to produce move when $(p ;-p) \uparrow$
Butall a prodreir cen see is $p ;$-cant set price level p (ar m).
When $m \uparrow$, all prices rise so $(p i-p)$ unaffected, but barber secs pile, says, "this might be (p;-p) $\hat{\text { p }}$ " \& produces more.

Resulting Phillips Curves

$$
\operatorname{LSF} \pi_{t}=E_{t-1} \pi_{t}+\beta y_{t}
$$

$S I \quad \pi_{t}=\pi \sum_{j=0}^{\infty}(1-\lambda)^{j} \underbrace{E_{t-1-j}\left(\pi_{t}+\alpha \Delta y_{t}\right)}_{\text {past expectations of current }}+\beta y_{t}$ conditions

