

Discount rate  $\beta$  discounted

$\phi$  Bergson's  $\frac{x(u; y)}{v}$

Steady state

$u$

$M_{\theta, y} \rightarrow$  ELASTICITY OF  $\theta$   
w.r.t.  $y$  at ss.  
 $L \Rightarrow \frac{\frac{\partial \theta}{\partial y}}{\frac{\partial \theta}{\partial y}} \quad \bar{u} = 0$

$$\bar{V} = -c + \beta [q(0) \bar{J} + (1-q(0)) \bar{V}] \quad (1)$$

$$\bar{J} = y - w + \beta [s \bar{V} + (1-s) \bar{J}] \quad (2)$$

Free entry  $\bar{V} = 0$

$$\bar{J} = \frac{c}{\beta q(0)}$$

$\bar{J} = \text{Expected}$   
 $\text{Jacobian}$   $wT$

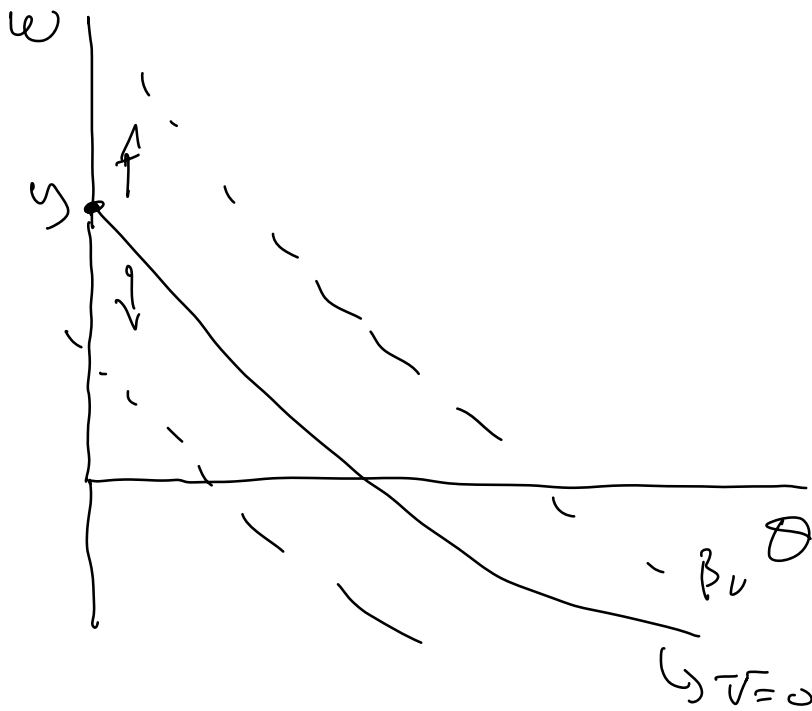
$$\left( \begin{array}{l} \beta \\ A \end{array} \right) (1 - \beta(1-s)) = y - w$$

3<sup>rd</sup>

$$\frac{c}{\beta q(\theta)} (1 - \beta(1-s)) = y - w$$

$$w = y - \frac{c}{\beta q(\theta)} (1 - \beta(1-s))$$

$q'(\theta) < 0$



What is the wage equation

NASH BARGAINING RULE

WAGE RULE

(4)

$$\bar{w}(1-\beta(1-s)) = w + \beta s v$$

$$\bar{w} = \bar{w} + \beta [s v + (1-s) \bar{w}] \quad (4)$$

$$v = b + \beta [\theta q_0 \bar{w} + (1-\theta q_0) v] \quad (5)$$

$$\bar{w} \geq v$$

$$s \geq v$$

Surplus share  $\phi$

$$\bar{w} - v = \phi [\bar{w} + s - v - \bar{w}]$$

$$w - v = \phi [S]$$

$$w + J - v$$

The actual wage is what?

CLATE:

$$w = (1 - \phi)(1 - \beta)v + \phi y$$

$$M = J + v \text{ Joint Value}$$

$$\begin{aligned} (1 - \beta(1 - \phi))M &= (1 - \beta(1 - \phi)) [v + w] \\ &= (1 - \beta(1 - \phi)) \frac{[y - v + w + \beta S v]}{1 - \beta(1 - \phi)} \end{aligned}$$

$$M = \frac{y + \beta S v}{1 - \beta(1-\delta)}$$

$$S = J + \overset{w}{\cancel{y}} - v$$

$$J = M - v$$

$$v = b + \beta [\theta q(w) [w] + (1-\theta) v]$$

$$v - \beta v = b + \beta [\theta q(w) [w - v]]$$

$$v(1-\beta) = b + \beta \theta q(w) [w - v] \quad (6)$$

$$w - v = \phi S$$

$$v = 0 \quad J = \frac{c}{\beta q(w)}$$

$$S = (1 - \phi) S^1$$

$$(1 - \phi) S^1 = \frac{C}{\beta \theta \eta \omega}$$

$$S^1 = \frac{C}{(1 - \phi) \beta \theta \eta \omega}$$

$$v(1 - \beta) = b + \beta \theta \eta \omega \phi S^1 \quad (1)$$

$$v(1 - \beta) = b + \beta \theta \eta \omega \phi \frac{C}{(1 - \phi) \beta \theta \eta \omega}$$

$$v(1 - \beta) = b + \frac{\beta \phi}{1 - \phi} C \quad (10)$$

$$S^1 = Y - \bar{v}$$

$$S^1 = \frac{Y + \beta S \bar{v}}{1 - \beta(1 - \delta)} - \bar{v}$$

$$S^1 = \frac{Y + \cancel{\beta S \bar{v}} - \bar{v} + \beta \bar{v} - \cancel{\beta S \bar{v}}}{1 - \beta(1 - \delta)}$$

$$S^1 = \frac{Y - (1 - \beta)\bar{v}}{2 - \beta(1 - \beta)}$$

~~$$S = (1 - \phi) S$$~~

$$\frac{Y - \bar{v}}{1 - \beta(1 - \delta)} = (1 - \phi) \left[ \frac{Y - (1 - \beta)\bar{v}}{1 - \beta(1 - \delta)} \right]$$

$$y - w = (1 - \phi) y - (1 - \phi)(1 - \beta) v$$

$$w = (1 - \phi)(1 - \beta) v + \phi y \quad \text{C.A.M}$$

$$(1 - \beta) v = b + \frac{\phi}{1 - \phi} c\theta$$

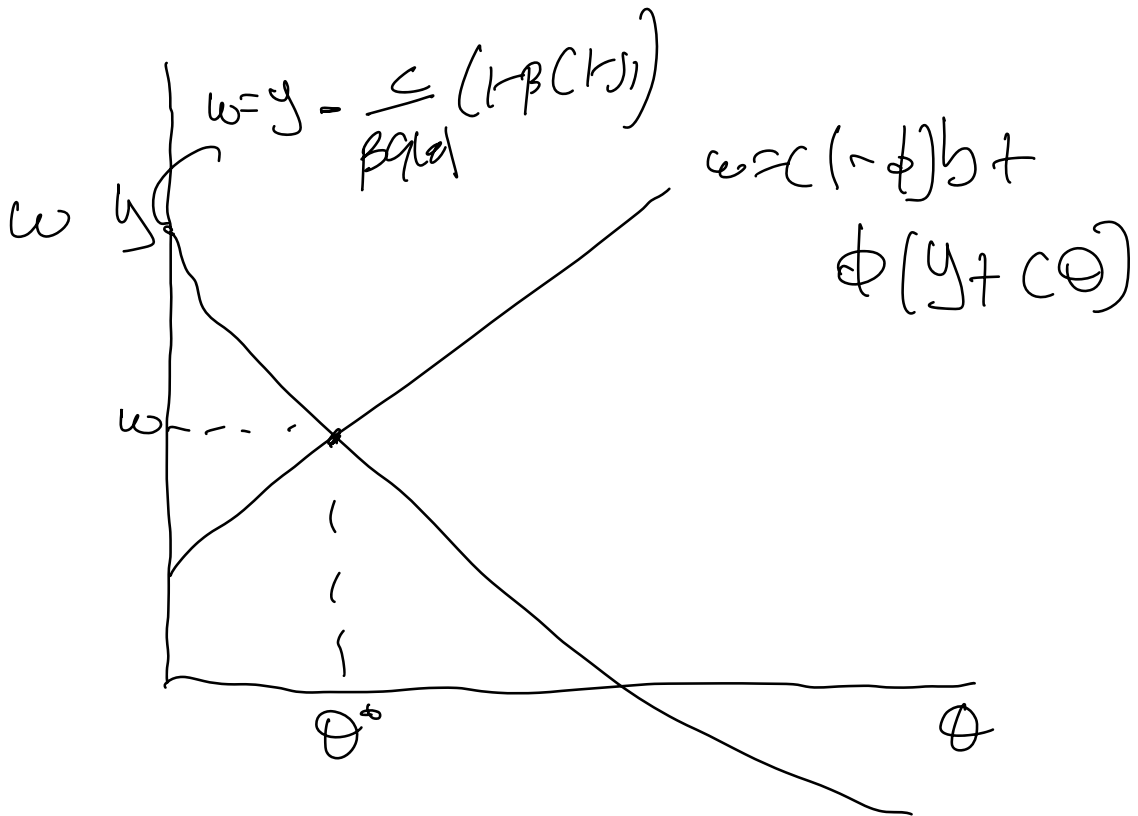
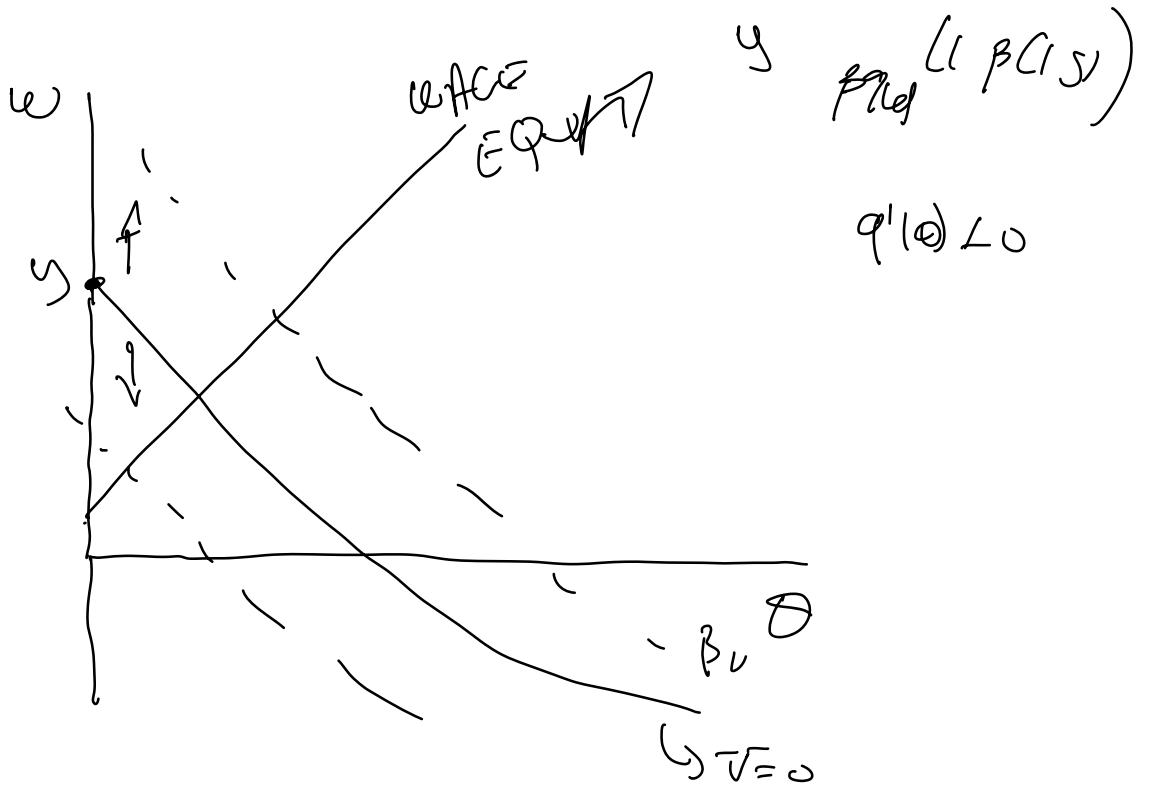
I get the kind expression of  
the var

$$w = (1 - \phi) \left[ b + \frac{\phi c\theta}{1 - \phi} \right] + \phi y$$

$$w = (1 - \phi) b + \phi [y + c\theta] \quad \text{!}$$

↳

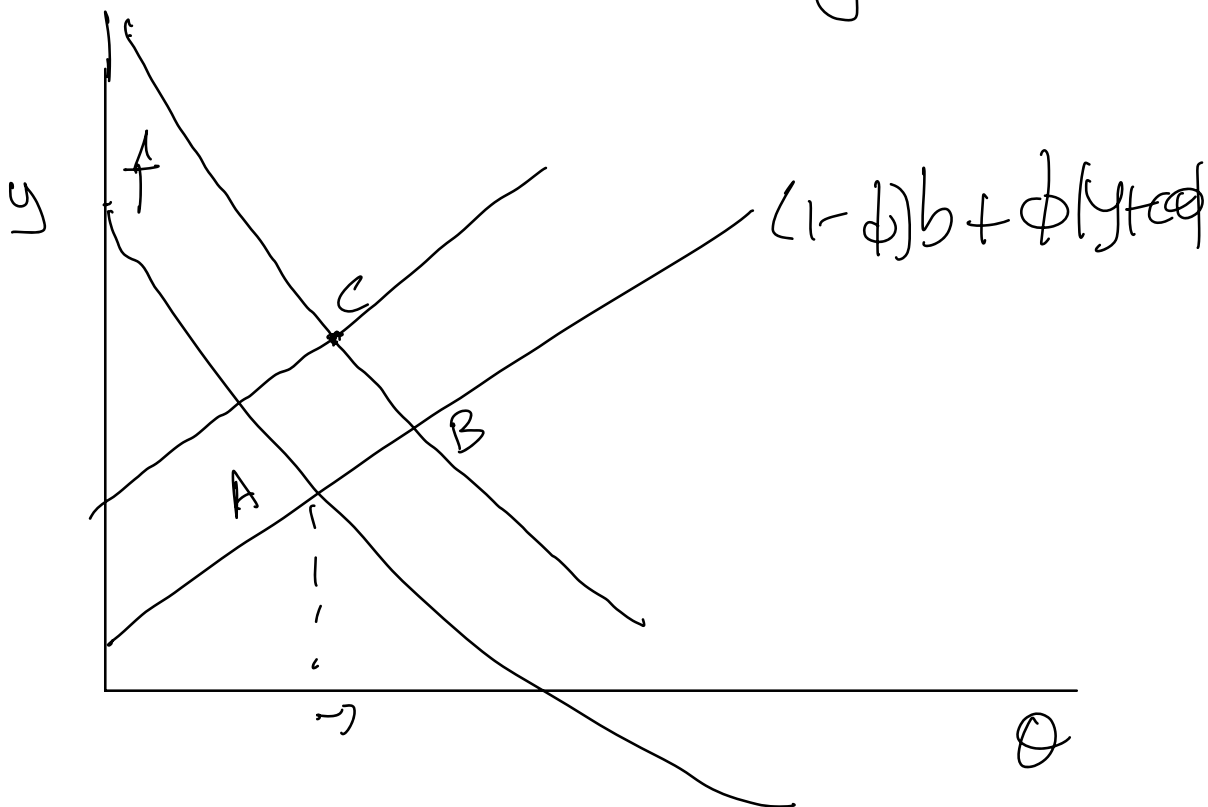




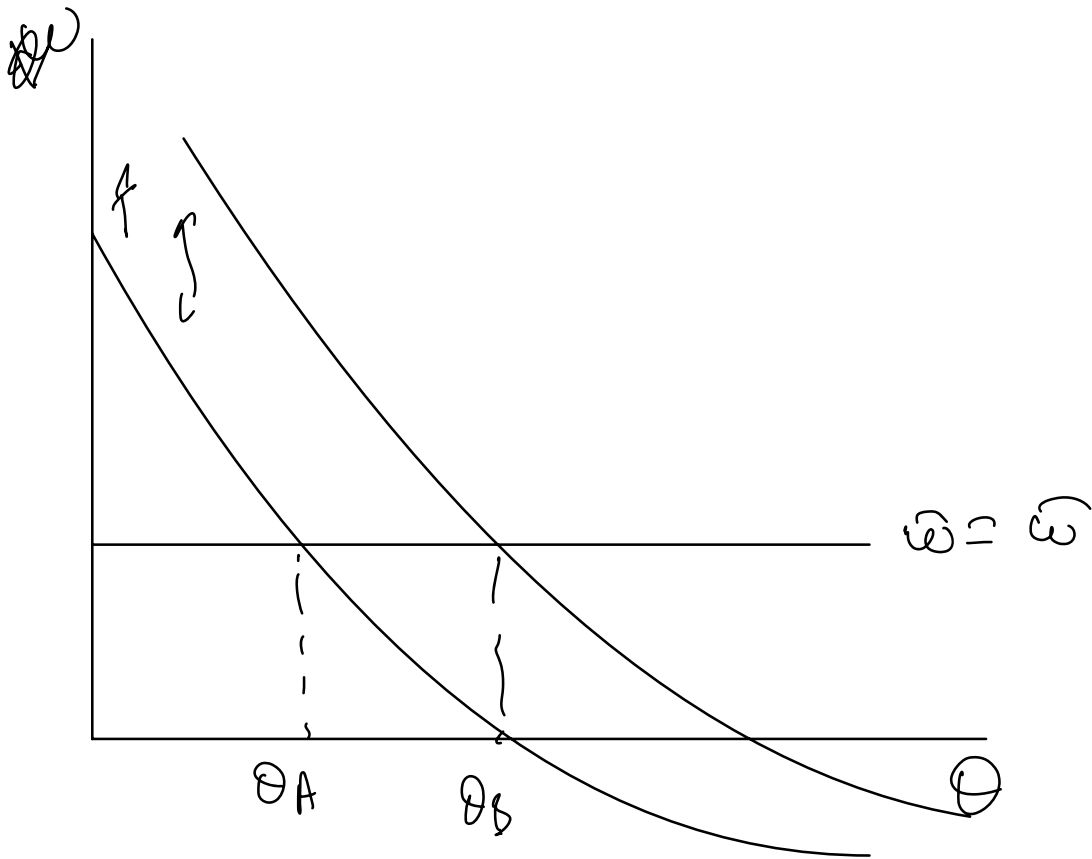
$$\theta^* = \begin{cases} (1-\phi)b + \phi(y+cd) = \\ = y - \frac{c}{\beta q_0} (1-\beta(1-s)) \end{cases}$$

$$\theta^* = \theta^*(y)$$

What is the impact on  $y$ ?



Suppose wage is fixed



$$w_{\theta, S} = \frac{S/\theta}{S/\theta} = \frac{S/\theta}{S/\theta} = 1$$

My DEFER = 20  
this