

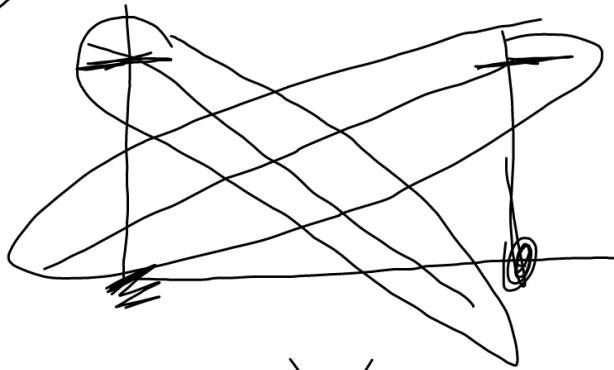
$$\sigma = (w, 1-w) \quad \lambda = (h, 1-h)$$

$$u(\sigma, \lambda) = w(1-h)v + (1-w)(1-h)\frac{v}{2} + wh\frac{v-c}{2}$$

$\sigma$  does in  $\lambda^* = (w^*, 1-w^*)$

$$h = w^*$$

$$u(\sigma, \lambda^*) = w(1-w^*)v + (1-w)(1-w^*)\frac{v}{2} + ww^*\frac{v-c}{2}$$



$$Aw + B$$

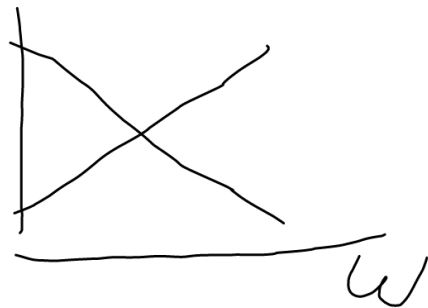
$$= \frac{v}{2}(1-w^*)(2-v+1-w) + ww^*\frac{v-c}{2}$$

$$= \underbrace{\frac{v}{2}(1-w^*)}_B + \underbrace{\frac{v}{2}(1-w^*)w + ww^*\frac{v-c}{2}}_{Aw}$$

$$= \frac{v}{2}(1 - w^*) + \frac{v}{2}w - \frac{v}{2}ww^* + \frac{v}{2}ww^*$$

$$ww^*$$

$$= \frac{v}{2}(1 - w^*) + \frac{w^c}{2} \left( \frac{v}{c} - w^* \right)^2$$



$$- \text{if } w^* < \frac{v}{c} \nearrow$$

$$w = 1$$

$$- \text{if } w^* > \frac{v}{c} \searrow$$

$$w = 0$$

$$- \text{if } w^* = \frac{v}{c}$$

indifference.

$$\sigma^* = \left( \frac{v}{c}, 1 - \frac{v}{c} \right)$$

$$x_\varepsilon = \left( \frac{v}{c} + \varepsilon \left( w - \frac{v}{c} \right), 1 - \frac{v}{c} - \varepsilon \left( w - \frac{v}{c} \right) \right)$$

$$u(\sigma, x_\varepsilon) = \frac{V}{2} \left( 1 - \frac{V}{c} + \varepsilon \left( \frac{V}{c} - w \right) \right) + \left( \frac{V}{c} - \frac{V}{c} + \varepsilon \left( \frac{V}{c} - w \right) \right) \frac{wc}{2}$$

$$= \frac{V}{2} \left( 1 - \frac{V}{c} + \varepsilon \left( \frac{V}{c} - w \right) \right) + \varepsilon \frac{wc}{2} \left( \frac{V}{c} - w \right)$$

$$\left( \frac{V}{c}, 1 - \frac{V}{c} \right)$$

$$u(\sigma, x_\varepsilon) = \frac{V}{2} \left( 1 - \frac{V}{c} + \varepsilon \left( \frac{V}{c} - w \right) \right) + \varepsilon \frac{V}{2} \left( \frac{V}{c} - w \right)$$

$$= \frac{V}{2} \left( 1 - \frac{V}{c} + 2\varepsilon \left( \frac{V}{c} - w \right) \right)$$

$$u(\sigma, x_\varepsilon) - u(\sigma, x_0)$$

$$= \frac{V}{2} \varepsilon \left( \frac{V}{c} - w \right) - \varepsilon \frac{wc}{2} \left( \frac{V}{c} - w \right)$$

$$= \left( \frac{v}{c} - u \right) \left( \frac{v}{2} \varepsilon - \frac{\varepsilon u c}{2} \right)$$

$$= \frac{\varepsilon c}{2} \left( \frac{v}{c} - u \right) \left( \frac{v}{c} - u \right)$$

$$= \frac{\varepsilon c}{2} \left( \frac{v}{c} - u \right)^2 > 0$$

