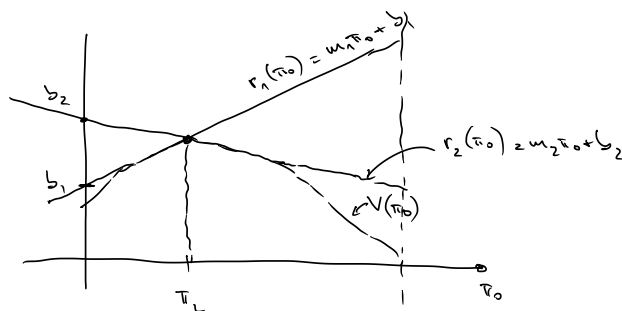
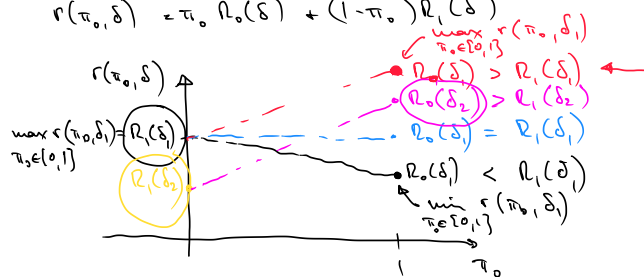


Buyer risk is an affine function of π_0 (i.e. linear)

$$r(\pi_0, \delta) = \pi_0 R_0(\delta) + (1 - \pi_0) R_1(\delta)$$



$q r_1(\pi_0) + (1-q) r_2(\pi_0)$ should be independent

$$\text{of } \pi_0 \Rightarrow \frac{\partial}{\partial \pi_0} \left[q r_1(\pi_0) + (1-q) r_2(\pi_0) \right] = 0$$

$$\Rightarrow q m_1 + (1-q) m_2 \geq 0 \Leftrightarrow q \geq \frac{m_2}{m_2 - m_1}$$

