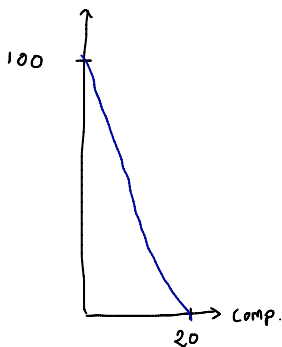
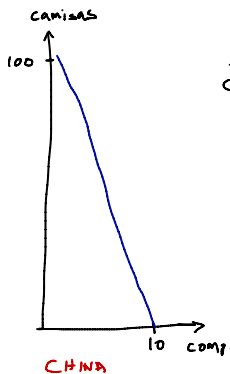


Camisas



EUA

$$y = 100 - 5x$$



CHINA

$$y = 100 - 10x$$

Costo de oportunidad

	Camisas	comp.
EUA	1/5	5
CHINA	1/10	10

⇒ EU hace comp  
CHINA camisas

⇒ EUA hará 20 comp  
CHINA hará 100 camisas

⇒ 5 comp. por 30 camisas

⇒ EU tendrá 10 comp. y 30 camisas  
CHINA tendrá 5 comp. y 70 camisas

$$d(q) = \frac{d}{a} + m$$

$$f(q) = q$$

$$\frac{d}{q} + m = q$$

$$\frac{d}{q} = q - m$$

$$d = q(q - m)$$

$$q^2 - mq - d = 0$$

$$q = \frac{b + \sqrt{b^2 + 4a}}{2}$$

$$q = \frac{m \pm \sqrt{m^2 + 4d}}{2}$$

$$\frac{5 + \sqrt{25 + 20}}{2}$$

$$\frac{5 + \sqrt{45}}{2}$$

$$U(x, y) = x^2 + y^2$$

$$\mathcal{L} = x^2 + y^2 + \lambda(I - p_x x - p_y y)$$

$$\frac{\partial \mathcal{L}}{\partial x} = 2x - \lambda p_x = 0 \quad x = \frac{\lambda p_x}{2}$$

$$\frac{\partial \mathcal{L}}{\partial y} = 2y - \lambda p_y = 0 \quad y = \frac{\lambda p_y}{2}$$

$$\frac{\partial \mathcal{L}}{\partial \lambda} = I - p_x x - p_y y = 0$$

$$\Rightarrow \frac{2x}{2y} = \frac{p_x}{p_y} \Rightarrow x = \frac{p_x}{p_y} y$$

$$x = \frac{a}{b} y$$

$$y = \frac{b}{a} x$$

$$I = ax + by$$

$$100 = \frac{a^2}{b} y + by$$

$$= \left( \frac{a^2}{b} + b \right) y$$

$$y = \frac{100}{\left( \frac{a^2}{b} + b \right)}$$

dijimos que si en la matricula  
habia un 0, entonces lo cambiarian  
por un 1.