

Avec reverse  $W = p_x e_x + p_y e_y$  :

$$Y = \frac{p_x e_x + p_y e_y}{2\sqrt{p_x p_y} + p_y} \quad X = \frac{2(p_x e_x + p_y e_y)}{(2\sqrt{p_x} + \sqrt{p_y})\sqrt{p_x}}$$

6). Equilibre sur le marché Y :

$$Y_1 + Y_2 = \frac{p \cdot e_{x1} + e_{y1} + p e_{x2} + e_{y2}}{\cancel{2\sqrt{p}} + 1} = e_{y1} + e_{y2}$$

(On a fixé  $p_y = 1$ ,  $p_x = p$ ).

$$\Rightarrow p(e_{x1} + e_{x2}) + e_{y1} + e_{y2} = (2\sqrt{p} + 1)(e_{y1} + e_{y2})$$

$$\Rightarrow p(e_{x1} + e_{x2}) = 2\sqrt{p}(e_{y1} + e_{y2})$$

$$\Rightarrow \sqrt{p} = 2 \frac{e_{y1} + e_{y2}}{e_{x1} + e_{x2}} \Rightarrow p = 4 \left( \frac{e_{y1} + e_{y2}}{e_{x1} + e_{x2}} \right)^2$$

(loi de Walras...  $\rightarrow$  1 marché suffit)

$$7) e_1 = (3, 1) \quad e_2 = (5, 1) \rightarrow p = 1/4$$

$$\rightarrow X_1 = 14/4, \quad X_2 = 18/4$$

$$Y_1 = 7/8, \quad Y_2 = 9/8$$

