



$$\begin{cases} p_1 x_1^* + p_2 x_2^* = m \\ x_2^* = ax_1^* \end{cases}$$

$$\Rightarrow x_1^* = \frac{m}{p_1 + ap_2};$$

$$x_2^* = \frac{am}{p_1 + ap_2}$$