

Problem 4.5

Abn. Chile f: US

P_n : $R \uparrow$ $F \downarrow$

$r > r_a \Rightarrow \text{dem} \downarrow$

costly/limits:

$\rightarrow F=0 \Rightarrow F < 0$ Loans from
abn backs
at rate r

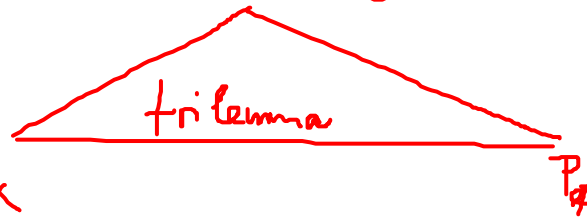
\rightarrow earn only r_a from R

\rightarrow policy fails $\Rightarrow w \downarrow \Rightarrow R$ is worth
less

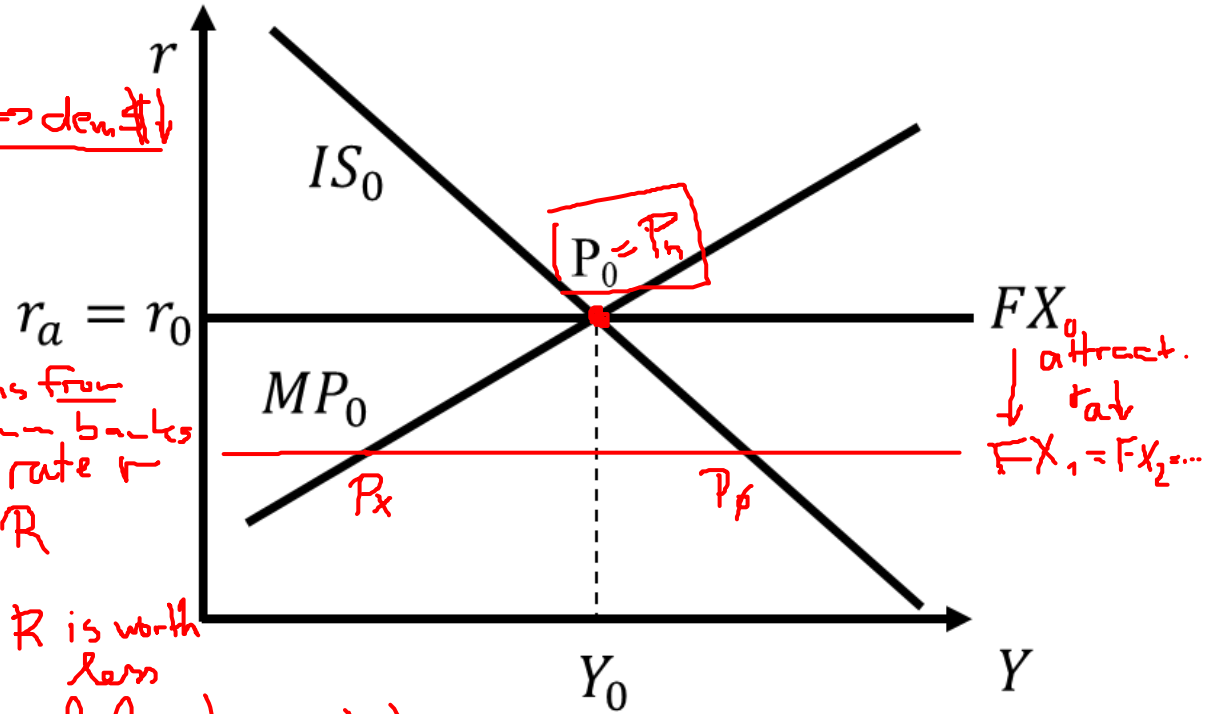
\Rightarrow capital controls can help to maintain P_n

P_n no free capital flows
control over r, w

no control of w
control over r



no autonomous VIP
control over w



■ Interest rates US

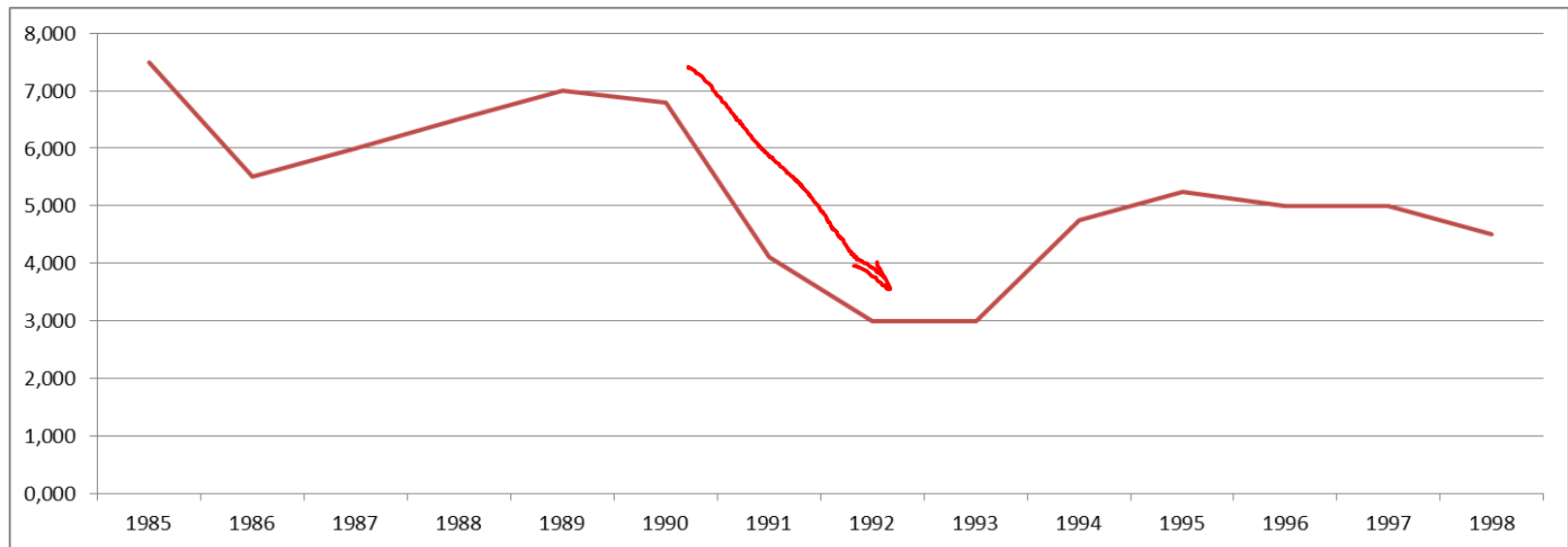


Figure 1 Total Capital Inflows, Chile, 1990-1996

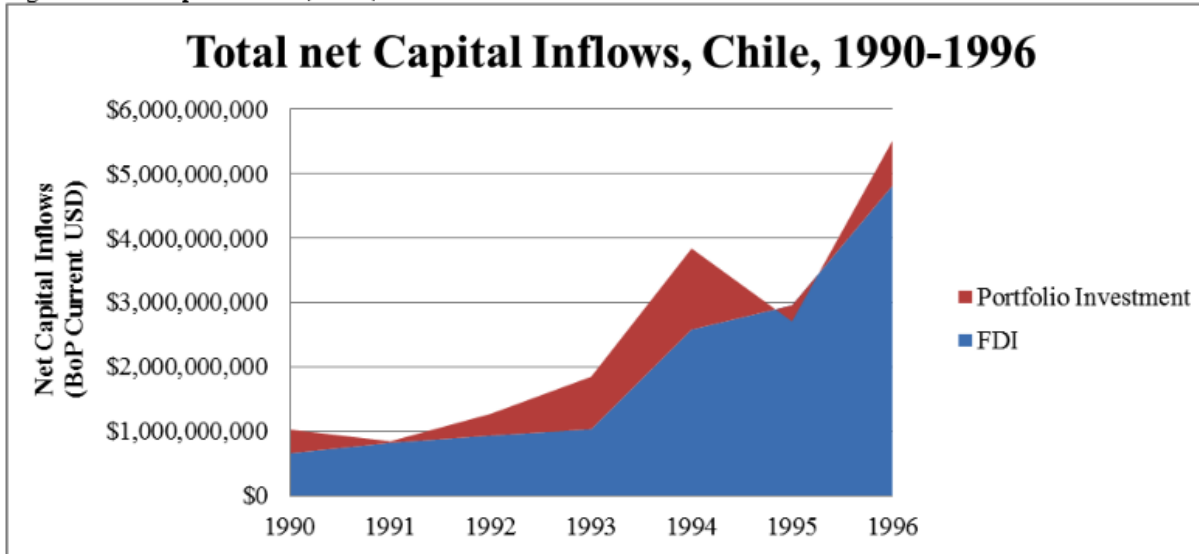
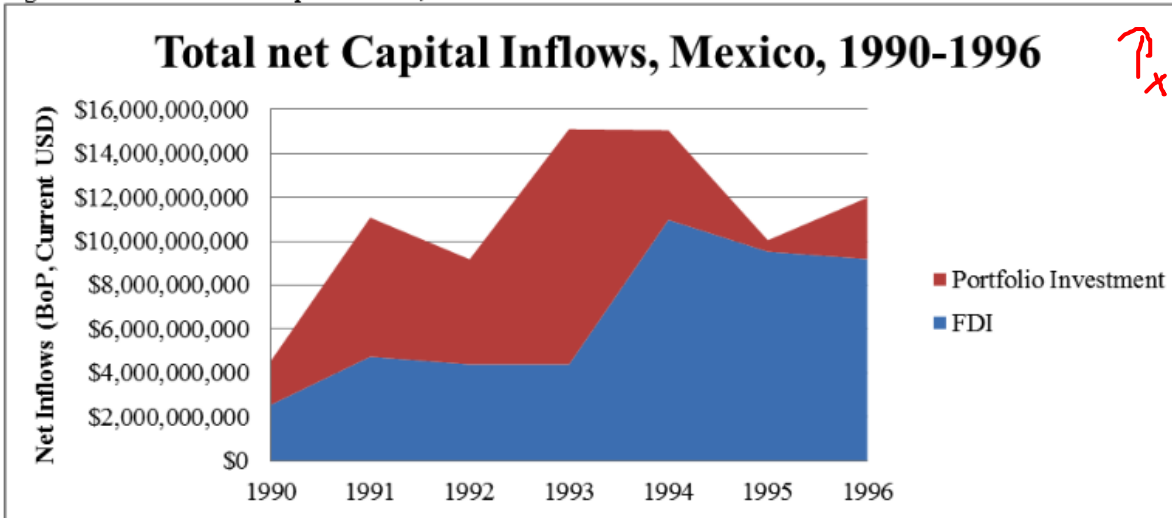
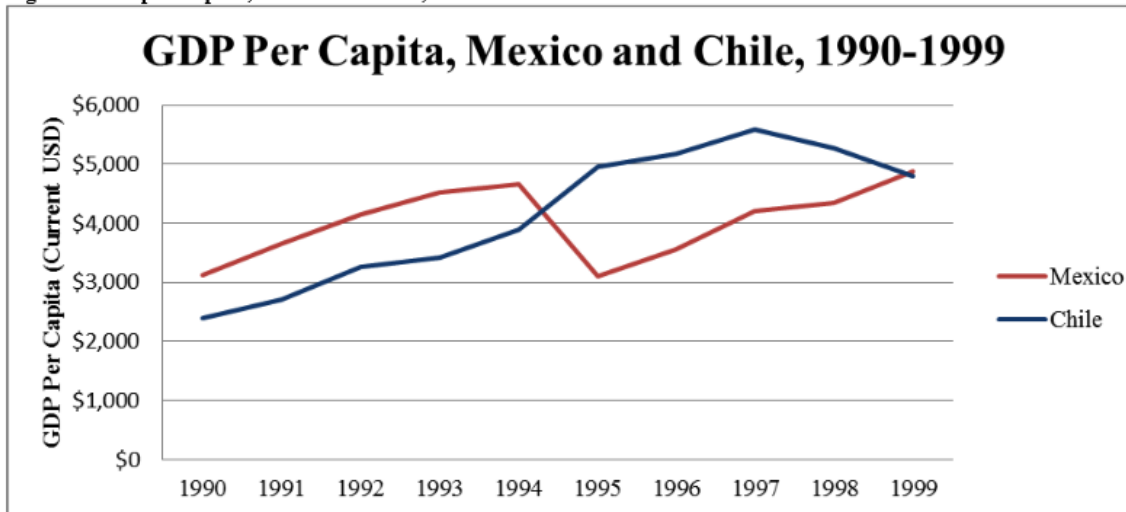


Figure 3 Mexico Total net Capital Inflows, 1990-1996



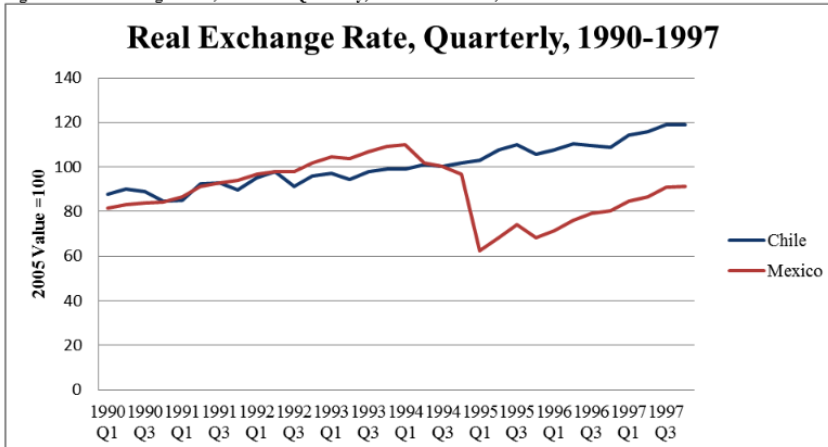
Source: International Monetary Fund. International Financial Statistics. Accessed via World Databank.

Figure 6 GDP per Capital, Mexico and Chile, 1990-1999



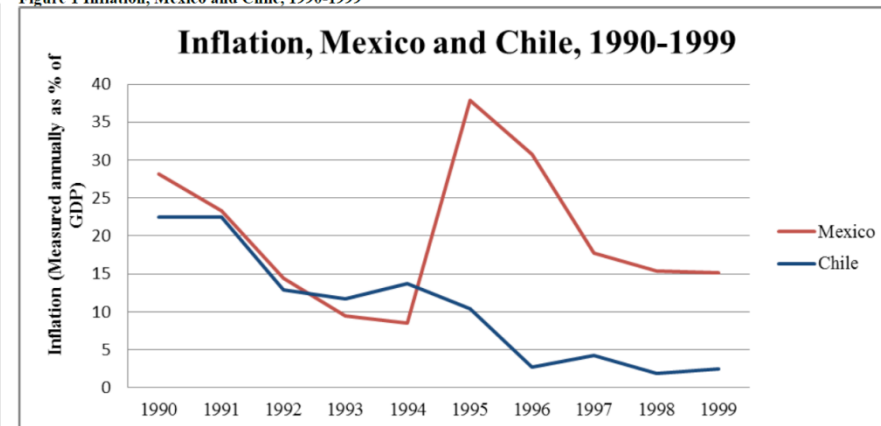
Source: International Monetary Fund. International Financial Statistics. Accessed via World Databank.

Figure 5 Real Exchange Rates, Measured Quarterly, Chile and Mexico, 1990-1997



Source: International Monetary Fund. International Financial Statistics. Accessed via World Databank.

Figure 1 Inflation, Mexico and Chile, 1990-1999



Source: International Monetary Fund. International Financial Statistics. Accessed via World Databank.

Quelle: <http://people.carleton.edu/~amonero/Travis%20Nordgaard.pdf>

■ Additional exercise

Assume that the FX -curve is affected by a random shock u_t in period 1. Let the shock be white noise such that it is independent and identically distributed $u_t \sim IID(0, \sigma^2)$. This implies that today's shock will not persist in period 2. In period 1, the shock shifts the FX -curve downwards.

- a. Explain the adjustments in period 1 and 2.
- b. Describe how managed floating can help to prevent the disturbances.

Additional exercise

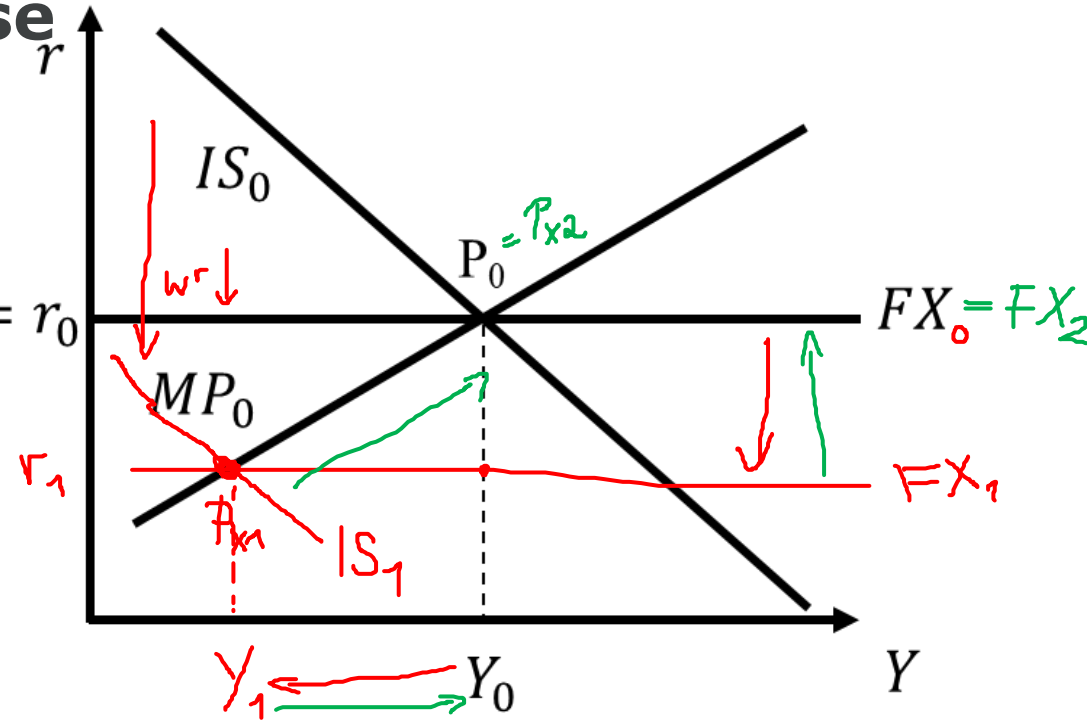
dom: Canada f: US

a) Period 1:

$FX \downarrow \Rightarrow r > r_a \Rightarrow \text{dem } \$ \downarrow$
 $\Rightarrow w \downarrow \Rightarrow w^* \downarrow \Rightarrow X' \downarrow J' \uparrow$
 $\Rightarrow Y \downarrow$
 CB: $Y \downarrow \Rightarrow r \downarrow \Rightarrow I \uparrow$

Period 2

$FX \uparrow \Rightarrow r < r_a \Rightarrow \text{dem } \$ \uparrow$
 $\Rightarrow w \uparrow \Rightarrow w^* \uparrow \Rightarrow X' \uparrow J' \downarrow \Rightarrow Y \uparrow$
 CB: $Y \uparrow \Rightarrow r \uparrow \Rightarrow I \downarrow$



Additional exercise

b_1 managed floating

$$r = r' + \lambda_p (Y - \bar{Y}) + \lambda_{IT} \pi + \lambda_w w$$

$r_a = r_0$

$r < r_a \Rightarrow \text{den. \$} \uparrow \Rightarrow w \uparrow \Rightarrow w' \uparrow$

No disturbances to GDP!

