

country a : Australia

Country b : US

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① $1 \text{ Aus\$} = 0.7 \text{ US\$}$

2. $1 \text{ US\$} = \frac{1}{0.7} \text{ Aus\$}$
 $\approx 1.43 \text{ Aus\$}$

Scenario: [Au\$]

option 1: $V_t^a = 10 \text{ apples}$

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option 2: $V_t^b = 0.7 \text{ us\$}$

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$\rightarrow V_t^b = 5 \text{ a/us\$}$

$V_t^b = 3.5 \text{ a}$

$$V_t^a < e_t V_t^b$$

Scenario 2:

1 US\$

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option 1: $V_t^b = 5 \text{ apple}$

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2: $\frac{1 \text{ US\$}}{e_t}$

$\approx 1.43 \text{ au\$}$

$V_t^a = 10 \text{ apple/au\$}$

$$\frac{1}{e_b} \cdot V_t^a = 14.3 \text{ apples}$$

$$V_t^b \quad \left(\frac{1}{e_t} \right) \cdot V_t^a$$

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$$V_t^b \cdot e_t \quad V_t^a$$

$$Q_t = \frac{V_t^a}{V_t^b} \quad ?$$

$$h^a = 1, 2 \quad h^b = 1$$

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$$z^a = z^b = 1$$

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$$\frac{Q_{t+1}}{Q_t} = 1, 2$$

$$\frac{V_{t+1}^a}{V_t^a} = \frac{N_{t+1}^a (y_t^a - c_t^a)}{M_t^a}$$

$$N_t^a (y_t^a - c_t^a)$$

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$$\frac{V_{t+1}^b}{V_t^b} = n^b = 1$$

$$n^a = n^b = 1, \quad z^a = 1.2$$

$$z^b = 1$$

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$$\frac{V_{t1}^a}{V_t^a} = \frac{M_{t1}^a}{M_{t1}^a} = \frac{1}{z^a} = 0.83$$

$$\frac{V_{t1}^b}{V_t^b} = \frac{1}{z^b} = 1$$

$$\frac{e_{t+1}}{e_t} = \frac{1}{1.2} = 0.83$$

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$$\frac{e_{t+1}}{e_t} = \frac{V_{t+1}^a / V_t^a}{V_{t+1}^b / V_t^b} = 1$$

$\therefore e_{t+1} = e_t$ requires

$$\frac{V_{t+1}^a}{V_t^a} = \frac{V_{t+1}^b}{V_t^b}$$

$$\frac{n^a}{z^a} = \frac{n^b}{z^b}$$

$$\textcircled{z^a} = \frac{n^a}{h^b} \times \textcircled{z^b}$$

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$$\frac{V^a}{V_t} = 1, \quad n^a = 1$$

$$\frac{V_b}{V_{t+1}} = 2$$

$$\frac{C_{t+1}}{C_t} = \frac{V_a}{V_{t+1}} = \frac{V_t}{V_{t+1}} = 1 \cdot \frac{1}{2}$$

what if

$$\frac{C_{t+1}}{C_t} = 1$$

$$z^a = \frac{n^a}{n^b} \cdot z^b$$

$$= \overline{h^a} \cdot \overline{\frac{z^b}{h^b}} \quad \leftarrow \frac{1}{2}$$

$$\frac{\sqrt{h^b}}{\sqrt{h^b}} = \frac{h^b}{z^b} = 2$$

$$\therefore z^a = \frac{1}{2} \quad \leftarrow z^* = 2.414$$

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T3 Q6

$$N \approx 1000$$

$$y = 20$$

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$$a) \rightarrow \frac{V_{\Delta 1}}{V_{\theta}} = \frac{1}{z}$$

$$y - c_1 = \frac{y}{1+z}$$

$$b) \frac{(M_k - M_{k-1}) V_k}{\left(1 - \frac{1}{z}\right) \cdot \frac{20000}{1+z}}$$

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\max_{z^*}

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$\left(1 - \frac{1}{z}\right)$

$$\frac{\cancel{20000}}{1+z}$$

\Rightarrow

\max_{z^*}

$$\frac{z-1}{z+z^2}$$

For: $\frac{1 - z^2 + 2z}{(z + z^2)^2} \Rightarrow$

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$\rightarrow 1 - z^2 + 2z = 0$

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$\Rightarrow z^* = 1 \pm \sqrt{2}$

$\therefore z^*$ has to be 20

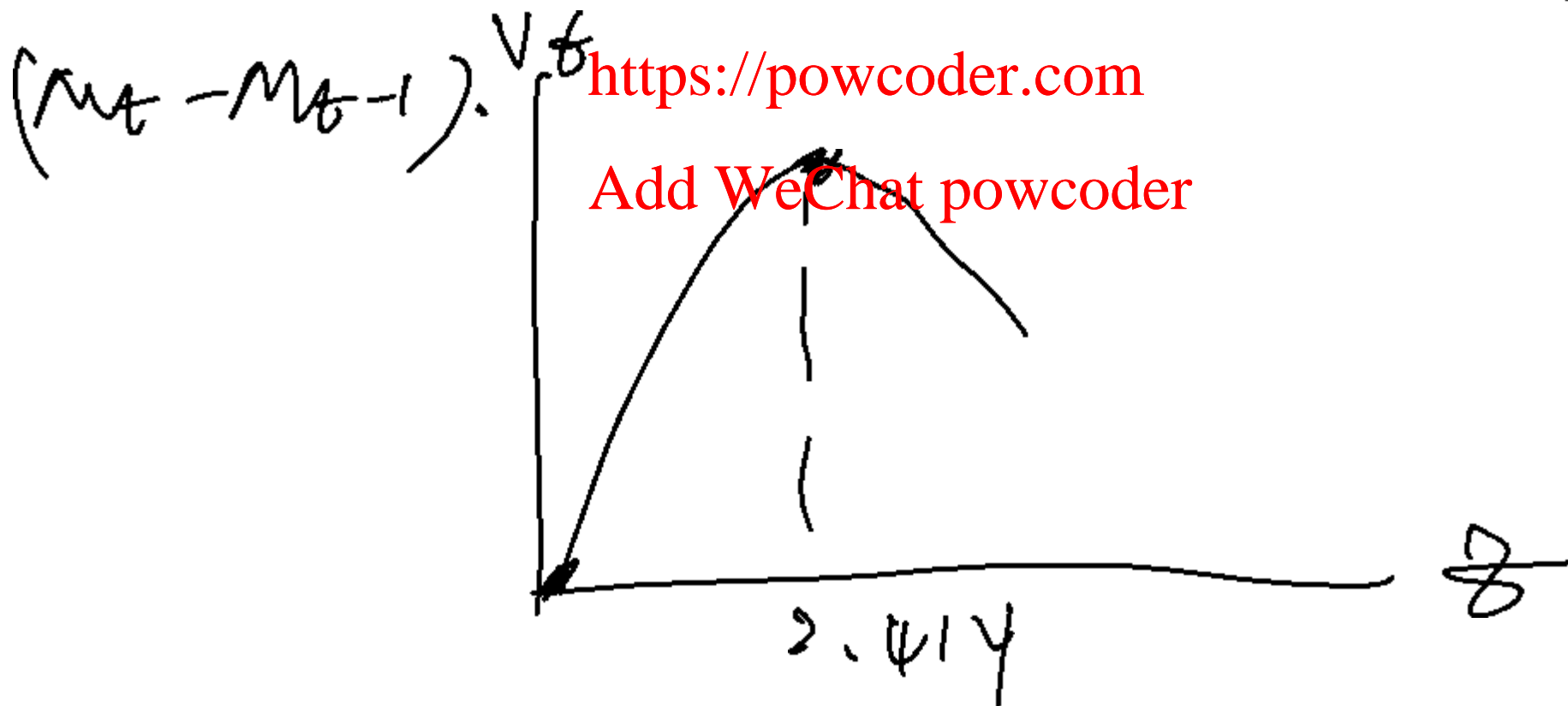
$$M_t = 2M_{t-1}$$

$$\therefore 2^* = 1 + \sqrt{2} \approx 2.414$$

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Under foreign currency
control

$$l_t = \frac{V_t^a}{V_t^b}$$

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$$\begin{cases} V_t^a M_t^a = N_t^a \cdot y - C_{1,t}^a \\ V_t^b M_t^b = N_t^b \cdot y - C_{1,t}^b \end{cases}$$

$$\hookrightarrow (V_t^a, V_t^b)$$

w/o foreign currency
control

$$C_t = \frac{V_t^a}{V_t^b}$$

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$$V_t^a M_t^a + V_t^b M_t^b$$

$$= N_t^a (y^a - c_{1,t}^a) +$$

$$N_t^b (y^b - c_{11-t}^b)$$

2 unknowns (V_t^a, V_t^b)

1 eqⁿ

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$$e_t = \frac{1 + \lambda t}{2 - \lambda t}, \quad \lambda t \in [0, 1]$$

$$\lambda t = 0, \quad e_t = \frac{1}{2}$$

$$\lambda_t = 1, \quad c_t = 2$$

$$\bullet \quad n^a = 200, \quad n^b = 200, \quad n^c = 100$$

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$$\bullet \quad y^a - c_{1,t}^a = y^b - c_{1,t}^b = y^c - c_{1,t}^c$$

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$$= 10$$

$$\bullet \quad m_t^a = 100, \quad m_t^b = 200$$

$$V_t^a = \frac{3000 + \lambda t 1000}{100}$$

$$= 30 + 10\lambda t$$

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$$V_t^b = 15 - 5\lambda t$$

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$$e_t = \frac{V_t^a}{V_t^b} = \frac{6 + 2\lambda t}{3 - \lambda t}$$

$$\boxed{\text{sp}_1 \quad \lambda t = \frac{1}{2}},$$

then $\left\{ \begin{array}{l} \rho_t = 2.8 \\ V_t^a = 35 \end{array} \right.$

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$$\left\{ \begin{array}{l} V_t^a = 12.5 \end{array} \right.$$

$$\text{sp}_1 \quad \lambda t = \frac{1}{4}$$

$$\left\{ \begin{array}{l} \rho_t = 2.36 \\ V_t^a = 32.5 \end{array} \right.$$

$$V_t^b = 13.75$$

for type c people
 it's possible to be as
 well as off as before

$(\$X, \$Y) \leftarrow$ portfolio

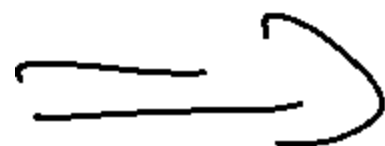
$$X \cdot 35^{v_t^a} + y \cdot 12.5^{v_t^b}$$

$$\Rightarrow X - 32.5 + y = 13.75$$

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$$\frac{X}{y} = \frac{1}{2}$$

1 sup
2 us b

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