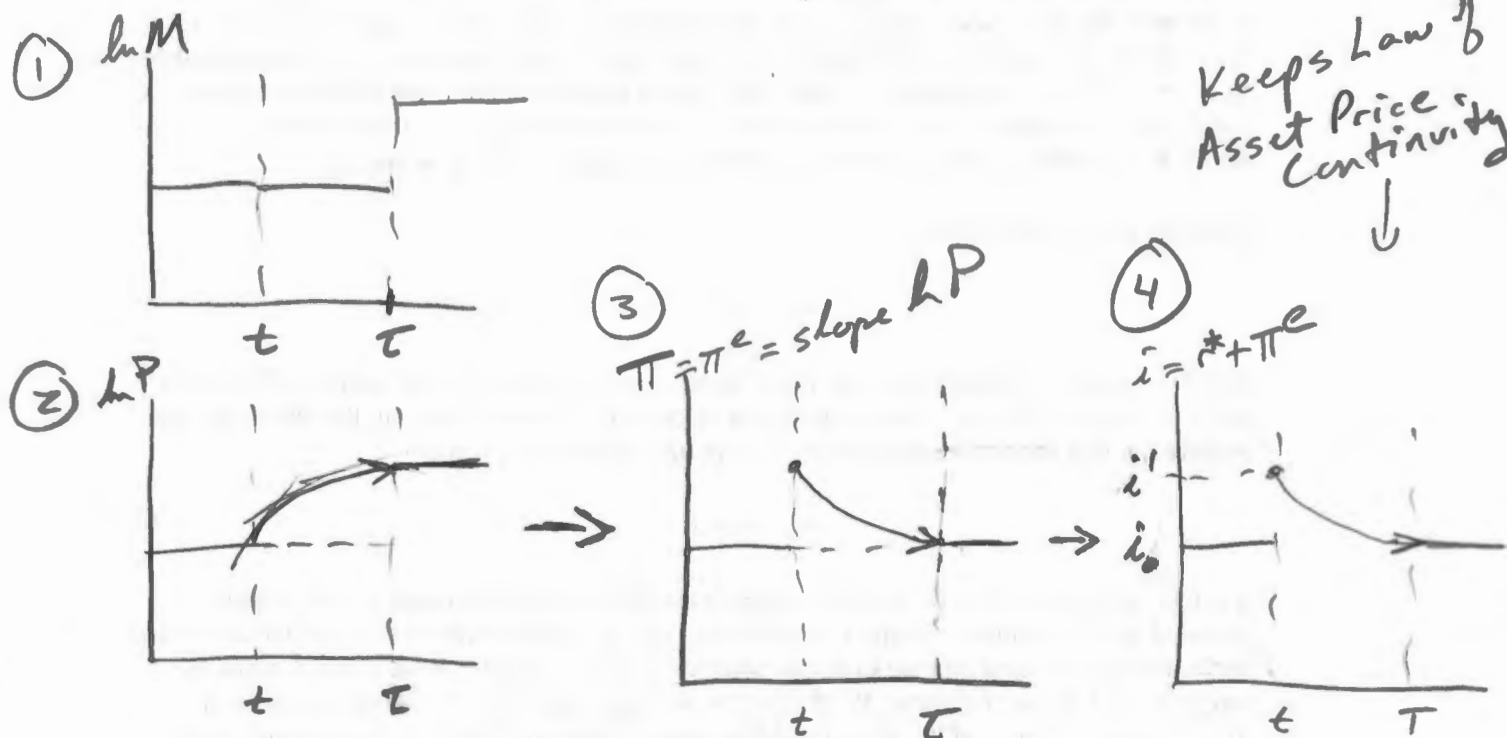


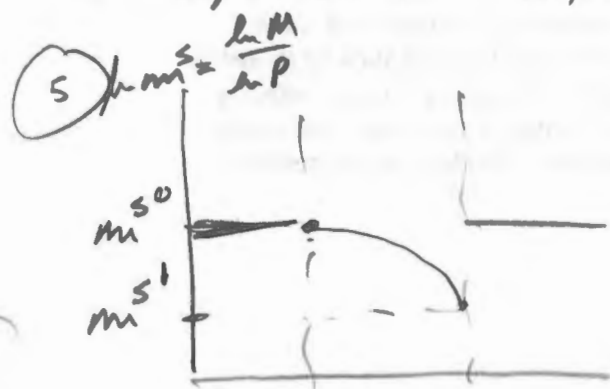
Expected Permanent $\uparrow M^s$: Done Right.

Key: ① $i = r^* + \pi^e$ in Small Open Economy, so $r^* = r^w$
 ② m^d like any D-curve will move based on i^e ,
 expected price of good demanded.

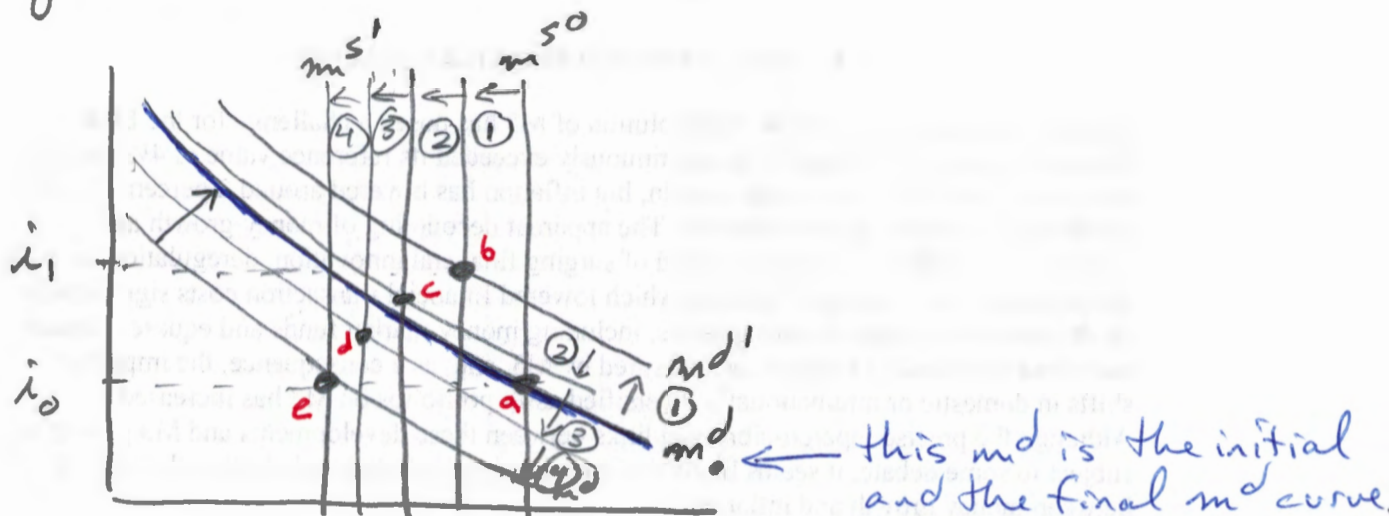


So, it must mean that m^d jumps all over to make sure this is the path of i and Asset Price Continuity isn't violated.

To figure out m^d , let's look at m^s .



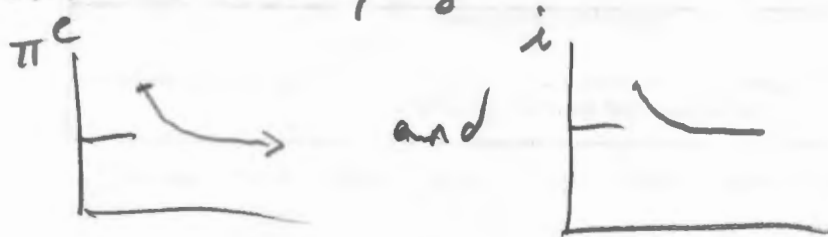
Money Diagram



From "Factors of Demand" (check principles textbook)

↑ Expected Future Price of a good Increases Demand today (while it's still relatively cheap).

So from the last page we know



This expected $\uparrow i \hat{=} \pi^e$ generated the initial $\uparrow m^d$ which, interestingly enough makes $\uparrow i$ happen now. From then on $i \hat{=} \pi^e$ are falling everywhere and this is expected to continue until $\uparrow m^s$ occurs. So, for the whole transition period m^d is declining and declining faster than m^s . This causes i to jump up and fall (points a-e).

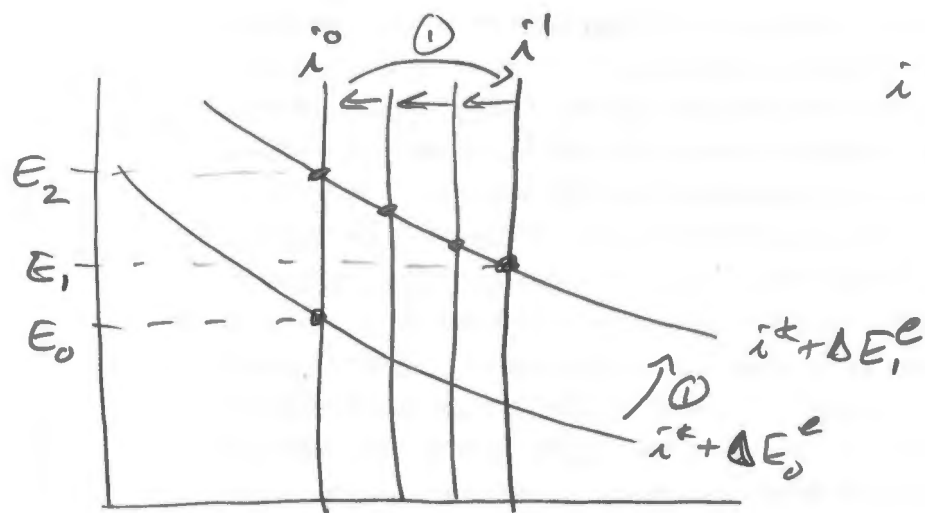
At time T , $\uparrow m^s$ occurs and m^d jumps back to its original position since no further Δ is expected.

Exchange Rate

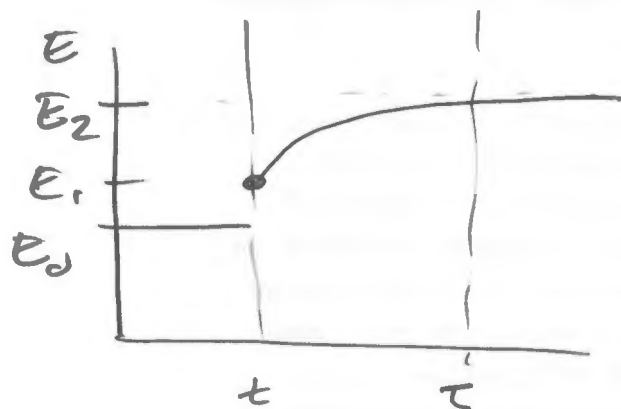
3

E must also obey the Asset Price Continuity Principle.

Note: because everyone knows that P ends higher, this is expected; thus $i^* + \Delta E^e$ jumps immediately



i jumps from i_0 to i_1 and then slowly falls back to i_0 .



Notice:

This looks just like P but with an initial jump.

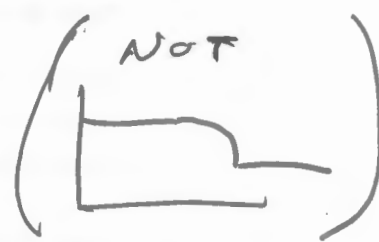
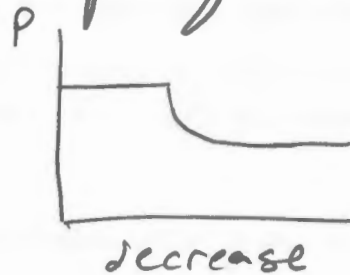
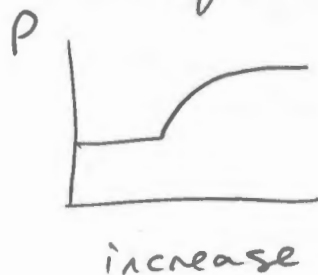
How to get this with LESS Work:

14

Steps for Anticipated

- ① draw M time path
- ② draw P time path
- ③ use slope of P to get π & i paths
- ④ E path looks like P path but add a jump at the beginning.

Just be careful with shape of P-path.



This will give you the correct π path too.

Finally, avoid jumps in π except at the beginning.

Remember, your goal is a path for i with no Anticipated jumps.

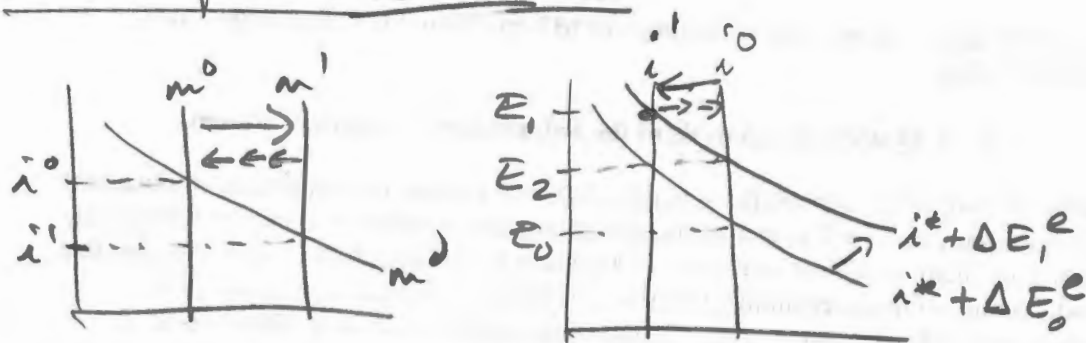
Next Examples

- I. Unanticipated, Permanent $\uparrow M^S$
- II. Anticipated, Permanent $\uparrow M^S$
- III. Unanticipated Temporary $\uparrow M^S$
- IV. Anticipated Temporary $\uparrow M^S$

Examples

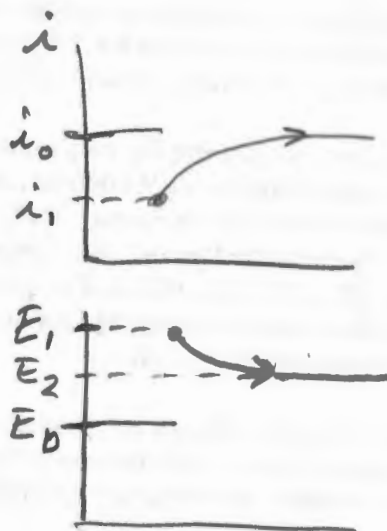
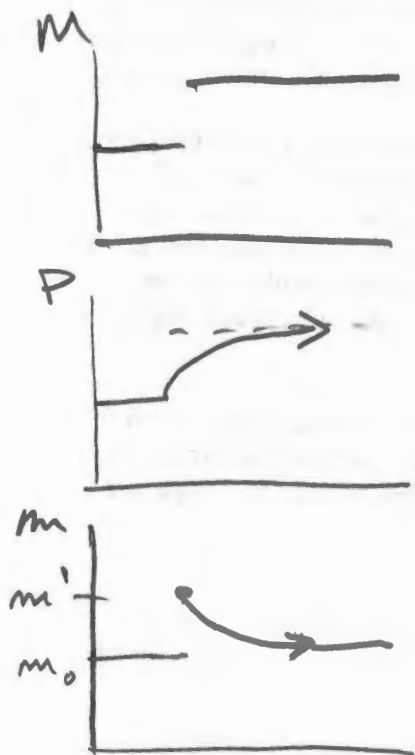
5

⑤ Unanticipated $PERM \uparrow M^S$



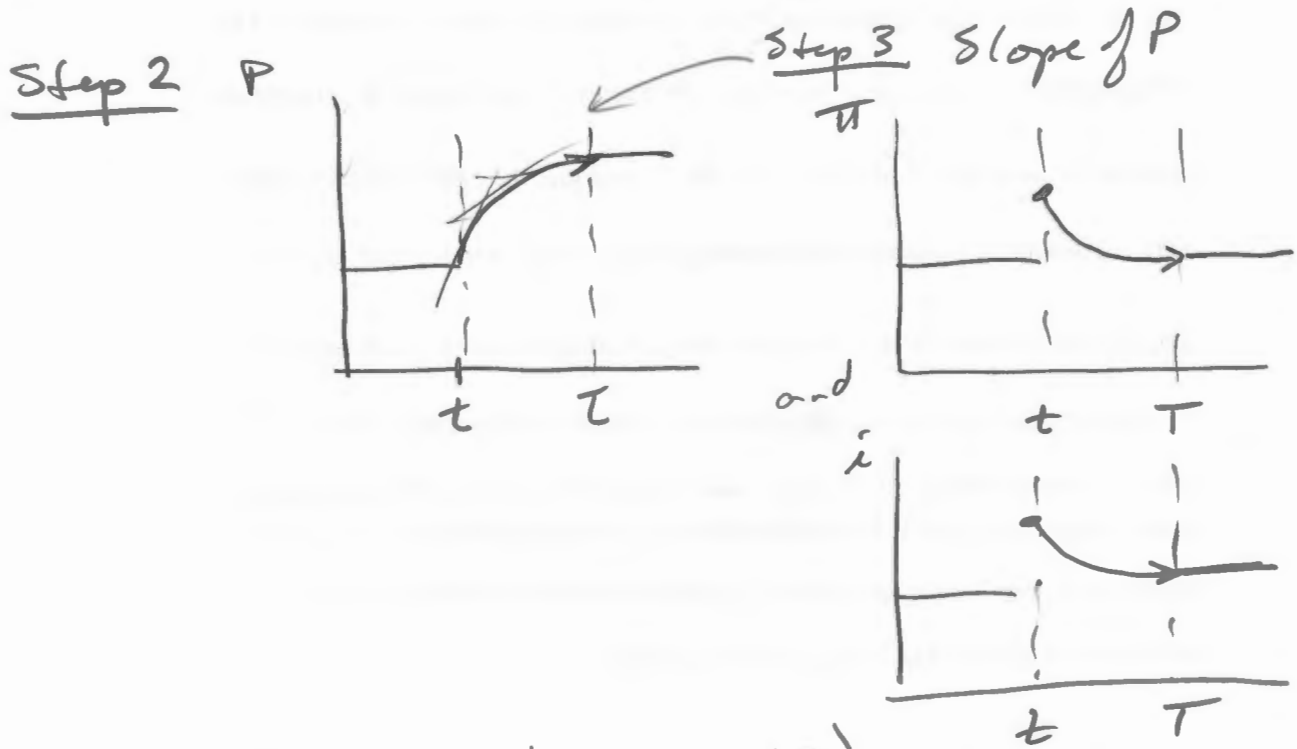
What happened?

- ① $\uparrow M^S \rightarrow \uparrow m \div \downarrow i$ to i_1 (all jump)
At the same time, Jump $\uparrow (i^* + \Delta E^e) \div \uparrow E$ to E_1
- ② $\uparrow P$ slowly $\rightarrow \downarrow m$ slowly $\div \uparrow i$ slowly to i_0
At the same time slow $\uparrow i \rightarrow$ slow $\downarrow E$.

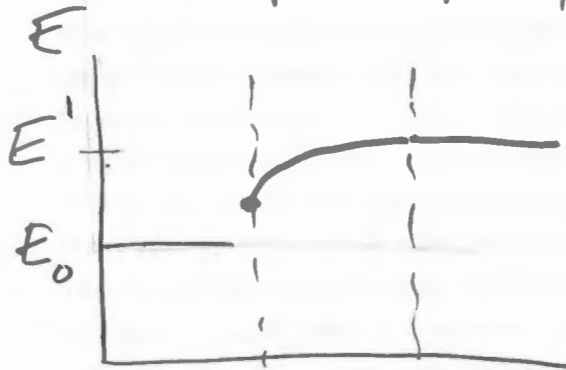


II) Anticipated, Permanent $\uparrow M^s$

Follow your steps



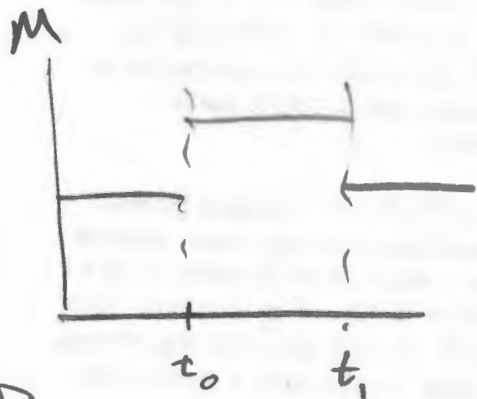
Step 4 (add jump to beginning of P)



TEMP Combined

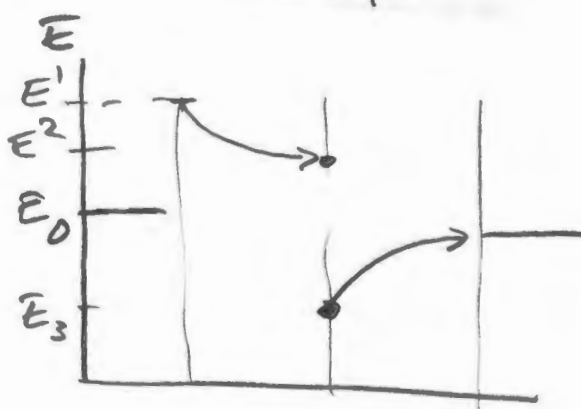
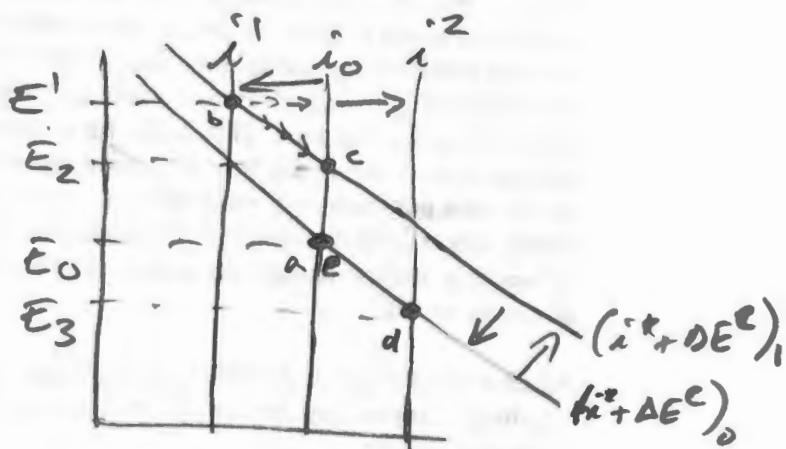
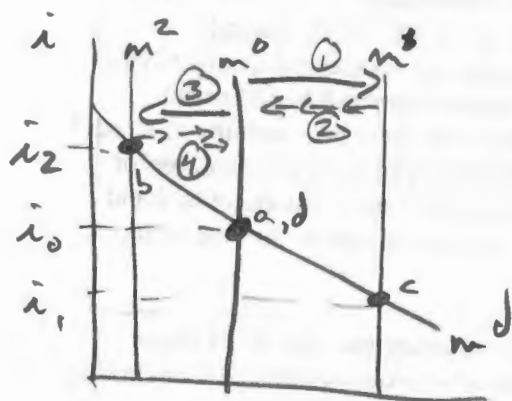
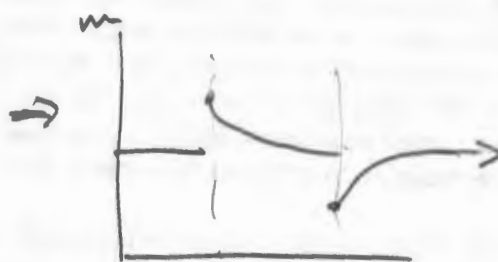
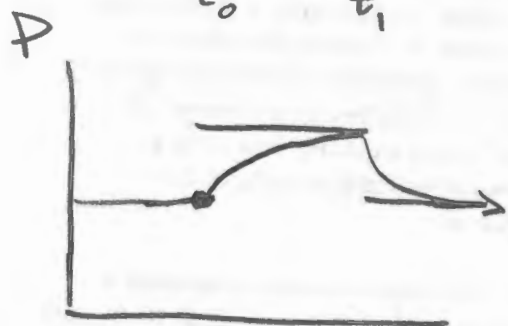
(7)

① Unanticipated TEMP = Unanticipated $\uparrow M^S$ & $\downarrow M^S$



Unanticipated $\uparrow M^S$ at t_0
Unanticipated $\downarrow M^S$ at t_1

This means we can have 2 jumps in Asset prices $\hat{i}$ & E .



vi) Anticipated TEMP: 100% Anticipated

Approach: Do anticipated PERM $\uparrow m^s$
then Do anticipated PERM $\downarrow m^s$
then Combine & smooth π

$$\text{Ant. PERM } \uparrow m^s + \text{Ant. PERM } \downarrow m^s = \text{Ant. TEMP } \uparrow m^s$$

