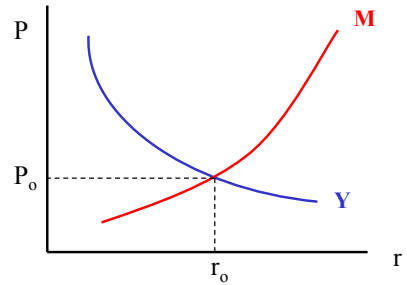


Equilibrium in Two Markets

Exercises

The Y and M Curves



A Problem

	$P=4$	$P=3$	$P=2$	$P=1$
$r=20\%$	91	96	98	100
$r=15\%$	96	98	100	102
$r=10\%$	98	100	103	105
$r=5\%$	100	104	106	111

A Problem

	$P=4$	$P=3$	$P=2$	$P=1$
$r=$ $Y = \sqrt{KL}$	6	98	100	
$r=$	8	100	102	
$r=$ $K = L = 100$	0	103	105	
$r=$	100	104	106	111

A Problem

	$P=4$	$P=3$	$P=2$	$P=1$
$r=$ $Y = \sqrt{KL}$	6	98	100	
$r=$	8	100	102	
$r=$ $K = L = 100$	0	103	105	
$r=$	100	104	106	111

$$Y = \sqrt{(100)(100)} = 100$$

A Problem

	$P=4$	$P=3$	$P=2$	$P=1$
$r=20\%$	91	96	98	100
$r=15\%$	96	98	100	102
$r=10\%$	98	100	103	105
$r=5\%$	100	104	106	111

Another Problem

	$P = 4$	$P = 3$	$P = 2$	$P = 1$
$r = 20\%$	25	30	35	40
$r = 15\%$	31	33	40	60
$r = 10\%$	40	41	50	80
$r = 5\%$	50	60	62	100

$M^S = 100$

Another Problem

	$P = 4$	$P = 3$	$P = 2$	$P = 1$
$r = 20\%$	25	30	35	40
$r = 15\%$	31	33	40	60
$r = 10\%$	40	41	50	80
$r = 5\%$	50	60	62	100

25 33 50 100

$M^S = 100$

Another Problem

	$P = 4$	$P = 3$	$P = 2$	$P = 1$
$r = 20\%$	25	30	35	40
$r = 15\%$	31	33	40	60
$r = 10\%$	40	41	50	80
$r = 5\%$	50	60	62	100

25 33 50 100

$M^S = 100$

A \$2 Increase in C

	$P = 4$	$P = 3$	$P = 2$	$P = 1$
$r = 20\%$	91	96	98	100
$r = 15\%$	96	98	100	102
$r = 10\%$	98	100	103	105
$r = 5\%$	100	104	106	111

A \$2 increase in C

	$P = 4$	$P = 3$	$P = 2$	$P = 1$
$r = 20\%$	93	98	100	102
$r = 15\%$	96	98	100	102
$r = 10\%$	98	100	102	104
$r = 5\%$	100	102	105	107

Another Problem

	$P = 4$	$P = 3$	$P = 2$	$P = 1$
$r = 20\%$	25	30	35	40
$r = 15\%$	31	33	40	60
$r = 10\%$	40	41	50	80
$r = 5\%$	50	60	62	100

$M^S = 100$

Santa adds \$60 to people's stockings. Every real dollar increase in wealth adds \$0.60 to real money demand.

Another Problem

	P = 4	P = 3	P=2	P=1
r=20%	25	30	35	40
r=15%	31	33	40	60
r=10%	40	41	50	80
r=5%	50	60	62	100

$M^S = 100160$

Another Problem

	P = 4	P = 3	P=2	P=1
r=20%	3425	30	35	40
r=15%	4031	33	40	60
r=10%	4940	41	50	80
r=5%	5950	60	62	100

$M^S = 100160$

If P = 4, $\Delta z = 60/4 = 15$

$\Delta M^D = 9$

Another Problem

	P = 4	P = 3	P=2	P=1
r=20%	3425	4230	35	40
r=15%	4031	4533	40	60
r=10%	4940	5341	50	80
r=5%	5950	7260	62	100

$M^S = 100160$

If P = 3, $\Delta z = 60/3 = 20$

$\Delta M^D = 12$

Another Problem

	P = 4	P = 3	P=2	P=1
r=20%	3425	4230	5335	40
r=15%	4031	4533	5840	60
r=10%	4940	5341	6850	80
r=5%	5950	7260	8062	100

$M^S = 100160$

If P = 2, $\Delta z = 60/2 = 30$

$\Delta M^D = 18$

Another Problem

	P = 4	P = 3	P=2	P=1
r=20%	3425	4230	5335	7640
r=15%	4031	4533	5840	9660
r=10%	4940	5341	6850	11680
r=5%	5950	7260	8062	136100

$M^S = 100160$

If P = 1, $\Delta z = 60/1 = 60$

$\Delta M^D = 36$

$M^S = 100160$

Another Problem

	P = 4	P = 3	P=2	P=1
r=20%	3425	4230	5335	7640
r=15%	4031	4533	5840	9660
r=10%	4940	5341	6850	11680
r=5%	5950	7260	8062	136100

~~25~~ ~~33~~ ~~50~~ ~~100~~

40 53 80 160

$$M^S = 100 \cdot 160$$

Another Problem

	$P = 4$	$P = 3$	$P = 2$	$P = 1$
$r = 20\%$	3425	4230	5335	7640
$r = 15\%$	4034	4533	5840	9660
$r = 10\%$	4940	5344	6850	11680
$r = 5\%$	5950	7260	8062	136100

25	33	50	100
40	53	80	160

Summary

- Y and M curves represent equilibrium in Goods Market (Y curve) and Money Market (M curve).
 - The intersection represents equilibrium in both markets
- Events such as increased confidence and Christmas presents can shift Y and M curves.
 - We analyze policies via the Curves.

End

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