# Question 1

- a. GDP stands for Gross Domestic Product. The four major expenditure components are:
  - Consumption anything that gives us utility today, but does not provide utility in the future
  - Investment anything that we store away for the purposes of providing future consumption (i.e. contributes to the capital stock)
  - Government spending
  - Net exports (Exports less imports)
- b. Consumer price inflation: the rate of change of a basket of consumption goods. Over long periods of time, the printing of money causes consumer price inflation. This is because the printing of money does not create goods; so more money chasing the same amount of goods causes the price of goods to rise.

# Question 2

								exp. Share	growth,	inflation
Year	а	ра	b	pb		Nom GDP		apples	real GDP	rate
2000	25	\$ 1.00	30	\$	2.50	\$	100.00	0.25	NA	NA
2001	26	\$ 1.02	31	\$	2.566	\$	106.07	0.25	3.50%	2.48%

Real GDP growth (from 2000-2001) = 0.25\*(26/25) + 0.75\*(31/30) - 1.0 = 3.50%Inflation (from 2000-2001) = 0.25\*(1.02/1.00) + 0.75\*(2.566/2.50) - 1.0 = 2.48%Likely that phi is equal to 0.25.

# **Question 3**

								Nom.	exp. Share	exp. Share	exp. Share
Year	ра	а	pb	b	рс		С	GDP	apples	bananas	cherries
2000	\$ 10.00	100	\$ 20.00	100	\$	35.00	200	\$10,000.00	0.100	0.200	0.700
2001	\$ 11.00	103	\$ 19.00	102	\$	35.00	200	\$10,071.00	0.113	0.192	0.695
2001	\$ 12.00	104	\$ 20.00	103	\$	36.00	206	\$10,724.00	0.116	0.192	0.692
	all goods							no cherries			
	growth,	inflation	real GDP	real GDP				exp share	exp share	growth	inflation
Year	real GDP	real GDP rate		\$2002			Year	apples	bananas	real GDP	rate
2000	NA	NA	\$10,000.00	\$10,401.58			2000	0.333	0.667	NA	NA
2001	0.70%	0.00%	\$10,070.00	\$10,474.39			2001	0.369	0.631	2.33%	0.00%
2001	2.38%	4.02%	\$10,309.98	\$10,724.00			2001	0.377	0.623	0.98%	6.68%

# Question 4

	Apples			Bananas			Nominal		Real GDP		Ann. Growth	Rates in %	exp share	exp share
Year	Quan.	Р	ri ce	Quan.	Price		GDP		(in \$2005)		Real GDP	Infl.	apples	bananas
2005	10	\$	2.00	5	\$	1.00	\$	25.00	\$	25.00	NA	NA	0.80	0.20
2006	11	\$	2.02	6	\$	1.05	\$	28.52	\$	28.00	12.00%	1.80%	0.78	0.22
2007	12	\$	2.05	7	\$	1.12	\$	32.44	\$	31.01	10.76%	2.63%	0.76	0.24

# Question 5

	Nominal	exp share	exp share	Non	n. Apple	Nom.	Banana					inflation	growth
Year	GDP	apples	bananas	epei	nditures	expen	ditures	pa	pb	а	b	rate	real GDP
2005	\$ 100.00	0.20	0.80	\$	20.00	\$	80.00	\$1.0000	\$5.0000	20.00	16.00	NA	NA
2006	\$ 105.00	0.20	0.80	\$	21.00	\$	84.00	\$1.0300	\$5.1000	20.39	16.47	2.20%	2.74%
2007	\$ 110.00	0.20	0.80	\$	22.00	\$	88.00	\$1.0815	\$5.2530	20.34	16.75	3.40%	1.32%

# Question 6

Overall = apples contribution + bananas contribution

1.05 = 0.2\*1.5 + 0.8\*x

0.8\*x = 0.75  $\rightarrow$  x = 0.9375

The price of bananas decreased by 6.25 percent (0.9375 - 1.0).

# Question 7

This question requires that you download data from the NIPA. I used NIPA Table 1.1.5 and computed the ratio of line 11 (Gross Private Domestic Fixed Investment: Residential) to line 1 (Gross Domestic Product). The average of this ratio from 47:Q1 to 96:Q4 is 4.77%; the average of the ratio from 97:Q1 to 07:Q4 is 4.97%.

# **Question 8**

32 percent.

# Question 9

This is a direct application of the formula:

Alpha = Capital Income / (Total Income – Ambiguous Income) = \$27 / (\$100 - \$10) = 0.30

Capital's share of income in 2003 in Germany is 30%.

# Question 10

Alpha = Capital Income / (Total Income – Ambiguous Income) = \$32 / (\$100 - \$5) = 0.337

Capital's share of income in 2007 in Germany is 33.7%.

# Macroeconomics for MBAs and Masters of Finance 1st Edition Davis Solutions Manual

Full Download: http://alibabadownload.com/product/macroeconomics-for-mbas-and-masters-of-finance-1st-edition-davis-solution

# Question 11

Note: You'll need some way to run a regression. Excel has this capability as an add-in.

The data on real GDP are in NIPA table 1.1.6. I downloaded the annual real GDP data from 1973-2007, regressed In(real GDP) on a time trend and included a constant in the regression.

I then computed the residuals for each year. The residuals are equal to In(real GDP) – *predicted,* where *predicted* is the predicted value based on the regression). The residual for 1982 is -0.058 and the residual for 2001 is 0.012 (your results may be slightly different depending on whether the BEA data have revised).

-5.8% and 1.2% are the "output gaps" for those two years.