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Fall 2009, Intermediate Macroeconomics, section 1

ECON 219 Quiz I

General recommendations:

- Read questions thoroughly.
- Please respond on this copy.
- You have 20 minutes.
- Work individually.
- There are two pages.
- Good luck!

Your name:

1. Circle the appropriate answer on each of the following items. Circle multiple items if necessary:
 - (a) The following items are taken into account when computing GDP with the production approach: 1) meals at home; 2) wages; 3) meals in restaurants; 4) sales taxes.
 - (b) Macroeconomists care about real GDP or GNP because: 1) services are not tangible goods; 2) it removes the illusion of price changes; 3) it is the quantity of goods, not their absolute value, that matters; 4) the CPI does not encompass all goods.
 - (c) By unemployment rate, we mean: 1) the number of people on unemployment insurance divided by the working-age population; 2) the number of people on unemployment insurance divided by the labor force; 3) the number of people looking for jobs divided by the working-age population; 4) the number of people looking for jobs divided by the labor force.
 - (d) How can we characterize the behavior of US government expenses through the business cycle in the United States? 1) we cannot tell; 2) it is anticyclical; 3) it is procyclical; 4) it is acyclical.
2. Suppose we have the following information about a plumber: wages \$30,000, repair sales \$200,000, taxes \$5,000, loan interest \$15,000, plumbing materials \$20,000. What is the contribution of this plumber to GDP following the production approach? Show details for partial credit.

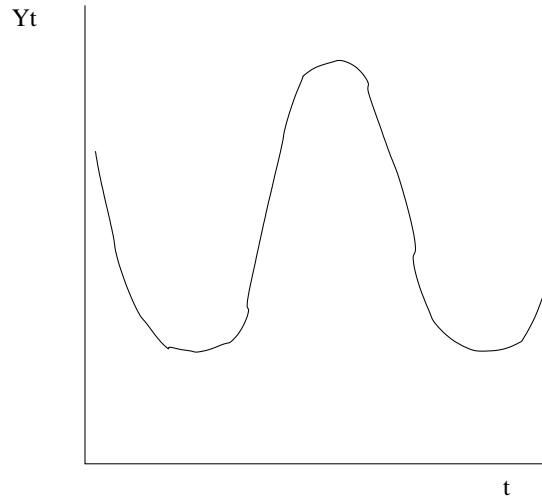
3. What are the business cycle characteristics of rainfall and tourist arrivals, from the following table?

Variable	SD%	Correlation of GNP with										
		x_{t-5}	x_{t-4}	x_{t-3}	x_{t-2}	x_{t-1}	x_t	x_{t+1}	x_{t+2}	x_{t+3}	x_{t+4}	x_{t+5}
GNP	1.72	.02	.16	.38	.63	.85	1.0	.85	.63	.38	.16	.02
Rainfall	3.55	.05	.23	.48	.79	.66	.44	.32	.24	.04	.10	.02
Tourists	2.79	.01	.10	.23	.35	.58	.82	.65	.43	.34	.22	.12

4. Compute real GDP in years 1999-2001 for base year 2000 using the following table. Provide the details of your calculations to get partial credit if wrong:

	milk	carrots
Year 1999 quantity	20	25
Year 1999 price	\$10	\$8
Year 2000 quantity	22	22
Year 2000 price	\$8	\$10
Year 2001 quantity	24	25
Year 2001 price	\$9	\$9

5. Using the graph below, which represents the cyclical components of GDP, draw a series that is more volatile and countercyclical.



Bonus question: Would there also be spurious correlation if only one of the two series has a trend?