Essay

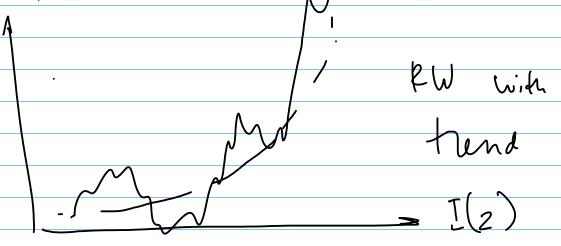
Doubs 1
- Parta (log - lin Visu dization/ Box-Cox tes
· U
- Specification Ramsey test;
economic theory / logic;
endogeneity (OVB (!))
$Q + Cov(x \cdot , \mathbf{z})$
β _z · Cov (χ _i , z _i)
Van (X;)
·
+ Multicollinearity
/ d . / h.
- Het erose. / Autocorrelation
,
(>> 1) TUS+
2) WAC(S.e.)
/ MILC (> , E -)
- Interpretation

Question 4.

Let us consider the relationship between the natural logarithm of GDP, GDP_t , and the lagged long-term interest rates $rate_t$, and $rate_{t-1}$.

(a) (10 points) \square Assume that GDP_t and $rate_t$ are difference stationary, or they are integrated of order 1:

 $GDP_t \in I(1)$, $rate_t \in I(1)$. What does it mean? How to test that a time series is I(1)?



 \Box What is cointegration? How to test whether time series GDP_t and $rate_t$ are cointegrated.

dri

Samo

order

a f

integration

2)

7

stut.

lin. comb

7+

2t - a, 1 a, . 6)Pt + az · 2t

GDPt = $-\frac{a_0}{a_1} - \frac{a_2}{a_1}$ If $\frac{2+}{a_1}$

Et

ADF test É.

