# Exercício C10.10

**i)**

Dependent Variable: I3
Method: Least Squares
Sample: 1948 2003
Included observations: 56

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|---|---|---|---|---|
| C | 1.733266 | 0.431967 | 4.012496 | 0.0002 |
| INF | 0.605866 | 0.082135 | 7.376481 | 0.0000 |
| DEF | 0.513058 | 0.118384 | 4.333842 | 0.0001 |

| | | | |
|---|---|---|---|
| R-squared | 0.602068 | Mean dependent var | 4.908214 |
| Adjusted R-squared | 0.587051 | S.D. dependent var | 2.868242 |
| S.E. of regression | 1.843163 | Akaike info criterion | 4.112927 |
| Sum squared resid | 180.0543 | Schwarz criterion | 4.221428 |
| Log likelihood | -112.1619 | Hannan-Quinn criter. | 4.154992 |
| F-statistic | 40.09424 | Durbin-Watson stat | 0.716153 |
| Prob(F-statistic) | 0.000000 | | |

**Correlação**

| | INF | DEF |
|---|---|---|
| INF | 1.000000 | 0.097471 |
| DEF | 0.097471 | 1.000000 |

**ii)**

Dependent Variable: I3
Method: Least Squares
Sample (adjusted): 1949 2003
Included observations: 55 after adjustments

| Variable | Coefficient | Std. Error | t-Statistic | Prob. |
|---|---|---|---|---|
| C | 1.611482 | 0.400761 | 4.021050 | 0.0002 |
| INF | 0.342616 | 0.125397 | 2.732243 | 0.0087 |
| INF(-1) | 0.381980 | 0.133585 | 2.859455 | 0.0062 |
| DEF | -0.189666 | 0.221284 | -0.857116 | 0.3955 |
| DEF(-1) | 0.569273 | 0.196771 | 2.893080 | 0.0056 |

| | | | |
|---|---|---|---|
| R-squared | 0.685018 | Mean dependent var | 4.978545 |
| Adjusted R-squared | 0.659819 | S.D. dependent var | 2.845528 |
| S.E. of regression | 1.659654 | Akaike info criterion | 3.937603 |
| Sum squared resid | 137.7225 | Schwarz criterion | 4.120088 |
| Log likelihood | -103.2841 | Hannan-Quinn criter. | 4.008172 |
| F-statistic | 27.18481 | Durbin-Watson stat | 0.763463 |
| Prob(F-statistic) | 0.000000 | | |

**iii)**

Wald Test:
Equation: EQUA2

| Test Statistic | Value | df | Probability |
|---|---|---|---|
| F-statistic | 5.219868 | (2, 50) | 0.0087 |
| Chi-square | 10.43974 | 2 | 0.0054 |

Null Hypothesis Summary:

| Normalized Restriction (= 0) | Value | Std. Err. |
|---|---|---|
| C(3) | 0.381980 | 0.133585 |
| C(5) | 0.569273 | 0.196771 |

Restrictions are linear in coefficients.