Some additional remarks to examples in Chapter 1

Example 1.2. For this example, we should have $x > \frac{1}{10}$ (not $x \ge \frac{1}{10}$ as written) in the definition of the utility function. Under autarchy, the consumer must choose *I* such that utility The maximization problem for society consists in finding *I* such that

$$\frac{3}{4}\ln(\ln(10-5I))) + \frac{1}{4}\ln(\ln(10(1-I+1,2I)))$$

(the constraint on c_2 should be $c_2 = 1 - I + 1$, 2*I*, the patient individual gets what is left over from investment together with reopayment of investment) which is decreasing in *I*, so we should have I = 0, meaning that $c_1 = 1$ and $c_2 = 1$.

The maximum for society of

$$\frac{3}{4}\ln\left(\ln\left(10\frac{1-I}{\frac{3}{4}}\right)\right) + \frac{1}{4}\ln\left(\ln\left(10\frac{1,2I}{\frac{1}{4}}\right)\right)$$

has first order condition

$$\frac{1}{c_1 \ln(10c_1)} = 1, 2\frac{1}{c_2 \ln(10c_2)}$$

where (c_1, c_2) should satisfy $\frac{3}{4}c_1 = 1 - I$ and $\frac{1}{4}c_2 = 1, 2I$, from which

$$c_1 = 1 - \frac{0,25}{1,2}c_2$$

(both equations are stated incorrectly in the text) with the result (1,013,1,152) (correctly stated in the text).