## Some additional remarks to examples in Chapter 1

Example 1.2. For this example, we should have $x>\frac{1}{10}$ (not $x \geq \frac{1}{10}$ 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

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

(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

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

has first order condition

$$
\frac{1}{c_{1} \ln \left(10 c_{1}\right)}=1,2 \frac{1}{c_{2} \ln \left(10 c_{2}\right)}
$$

where $\left(c_{1}, c_{2}\right)$ should satisfy $\frac{3}{4} c_{1}=1-I$ and $\frac{1}{4} c_{2}=1,2 I$, 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).

