Problem Set 4

 ${\rm MACS}$ 40000, Dr. Evans Sophia Mo

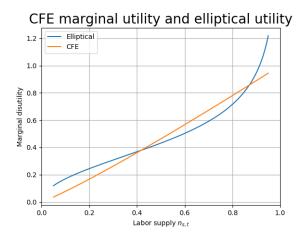
Problem 1(i)

$$\frac{\partial g_{cfe}(n)}{\partial n} = n^{\frac{1}{\sigma}}$$

$$\frac{\partial g_{elp}(n)}{\partial n} = \frac{b}{\tilde{l}} \left(\frac{n}{\tilde{l}}\right)^{v-1} \left(1 - \left(\frac{n}{\tilde{l}}\right)^v\right)^{\frac{1-v}{v}}$$

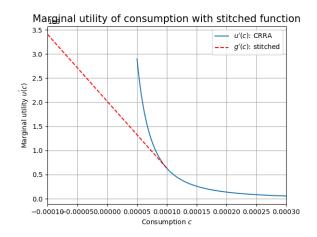
Problem 1(ii)

The estimated b is 0.5267708068873399, and upsilon is 1.4968180152979402.



Problem 2(i)

The marginal utility values obstained from the stitched function are: 1.40829679e+11, 5.75433098e+10, 4.59479342e+00, 1.22196463e-01



Problem 2(ii)

The marginal disutility values are:

