# Econ202A Assignment 1

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## 1 Problem 1

Consider the following problem solved be a representative agent:

$$\max \sum_{t=0}^{\infty} \beta^t \log c_t, \quad 0 < \beta < 1$$

subject to

$$c_t + k_{t+1} \le k_t^{\theta}, \quad 0 < \theta < 1,$$
 $k_0$  given.

(a)

$$v(k_0) = \max(u(c_0) + \beta v(k_1))$$
  
$$v(k_0) = \max(u(f(k_0) - k_1) + \beta v(k_1))$$

- (b)
- (c)

#### 2 Problem 2

3 Problem 3 (due to turn in)