

$$\int_a^b f(x)dx$$

$$\int_a^b f(x)dx \tag{1}$$

$p_1$ 을 재화 1의 가격이라 하고,  $p_2$ 를 재화 2의 가격이라 하자. 소비자가 사용할 수 있는 예산의 한도가  $m$ 원까지일 때, 생각할 수 있는 제약모델은 다음과 같다:

$$p_1x_1 + p_2x_2 \leq m. \tag{2}$$

자주 사용되는 효용함수로 **Cobb-Douglas** 효용함수가 있다. 이 함수의 정의는 다음과 같다:

$$u(x_1,x_2)=x_1^cx_2^d$$

$$\int_a^bf(x)dx$$

$$\int_a^b f(x)dx$$

$$\int_a^b f(x)dx \tag{3}$$

$$a^x+y=a^xa^y \tag{4}$$

$$a^{x+y}=a^xa^y$$

$$a^{x+y}=a^xa^y$$

$$\overline{a+b}=\overline{a}+\overline{b}$$

$$\underline{a+b}=\underline{a}+\underline{b}$$

$$\underbrace{1+\cdots+1}$$

$$\overbrace{1+\cdots+1}$$

$$\vec{a}=(3,0,0)$$

$$\overrightarrow{a}=(3,0,0)$$

$$\overleftarrow{a}=(3,0,0)$$

$$id=\sigma^{-1}\cdot\sigma.$$

$$\begin{array}{ccc} A & B & C \\ d & e & f \\ 1 & 2 & 3 \end{array}$$

$$\begin{pmatrix} A & B & C \\ d & e & f \\ 1 & 2 & 3 \end{pmatrix}$$

$$\begin{bmatrix} A & B & C \\ d & e & f \\ 1 & 2 & 3 \end{bmatrix}$$

$$\mathop{baseline}\limits_{under}$$

$$\mathop{baseline}\limits^{over}$$

$$\sum_{\substack{1\leq i\leq q\\ 1\leq j\leq q\\ 1\leq k\leq r}}a_{ij}b_{jk}c_{ki}$$

$$A=\{x\in\mathbb{R}|x^2=a,\text{where }a\text{ is positive}\}$$

$$\mathbb{2}$$

$$A = \{x \in \mathbb{R} \mid x^2 = a, \text{ where } a \text{ is positive}\}$$

## 1 Hi

정리 1.1.

$$A = \{x \in \mathbb{R} \mid x^2 = a, \text{ where } a \text{ is positive}\}$$

증명. Hello world!

$$id = \sigma^{-1} \cdot \sigma.$$

□

## 2 Hello

정의 1.  $\mathbb{R}$  is the set of all real numbers.

$$id = \sigma^{-1} \cdot \sigma.$$

정리 1.1에 의해서

정리 (1.1)에 의해서

Note that

$$A \leq B \tag{5}$$

and

$$B \leq A. \tag{6}$$

So by (5) and (6), we conclude that  $A = B$ .

$$\begin{aligned} Hf(x) &= \text{p.v.} \frac{1}{\pi} \int_{\mathbb{R}} \frac{f(y)}{x-y} dy \\ &= \lim_{\varepsilon \rightarrow 0} \frac{1}{\pi} \int_{|x-y| > \varepsilon} \frac{f(y)}{x-y} dy \end{aligned} \tag{7}$$

$$\begin{aligned} Hf(x) &= \text{p.v.} \frac{1}{\pi} \int_{\mathbb{R}} \frac{f(y)}{x-y} dy \\ &= \lim_{\varepsilon \rightarrow 0} \frac{1}{\pi} \int_{|x-y| > \varepsilon} \frac{f(y)}{x-y} dy \end{aligned} \tag{8}$$

$$Hf(x) = \text{p.v.} \frac{1}{\pi} \int_{\mathbb{R}} \frac{f(y)}{x-y} dy \quad (9)$$

$$= \lim_{\varepsilon \rightarrow 0} \frac{1}{\pi} \int_{|x-y| > \varepsilon} \frac{f(y)}{x-y} dy \quad (10)$$

$$Hf(x) = \text{p.v.} \frac{1}{\pi} \int_{\mathbb{R}} \frac{f(y)}{x-y} dy \quad (11)$$

$$= \lim_{\varepsilon \rightarrow 0} \frac{1}{\pi} \int_{|x-y| > \varepsilon} \frac{f(y)}{x-y} dy$$

$$Hf(x) = \text{p.v.} \frac{1}{\pi} \int_{\mathbb{R}} \frac{f(y)}{x-y} dy$$

$$= \lim_{\varepsilon \rightarrow 0} \frac{1}{\pi} \int_{|x-y| > \varepsilon} \frac{f(y)}{x-y} dy$$

Cobb-Douglas 모델의 MRS(Marginal rate of substitution)을 구해보도록 하자.  $u(x_1, x_2) = x_1^c x_2^d$  이라 할 때,

$$\begin{aligned} \text{MRS} &= - \frac{\partial u(x_1, x_2) / \partial x_1}{\partial u(x_1, x_2) / \partial x_2} \\ &= - \frac{cx_1^{c-1} x_2^d}{dx_1^c x_2^{d-1}} \\ &= - \frac{cx_2}{dx_1} \end{aligned}$$

와 같다.

$$a_{11} = b_{11}$$

$$a_{12} = b_{12}$$

$$a_{21} = b_{21}$$

$$a_{22} = b_{22} + c_{22}$$

$$a_{11} = b_{11}$$

$$a_{12} = b_{12}$$

$$a_{21} = b_{21}$$

$$a_{22} = b_{22} + c_{22}$$

align 환경이면서 한 행에 부연설명을 하고자 할 때 적합한 환경이다.

$$x = y_1 - y_2 + y_3 - y_5 + y_8 - \dots \quad \text{by} \tag{12}$$

$$= y' \circ y^* \quad \text{by} \tag{13}$$

$$= y(0)y' \quad \text{by Axiom 1.} \tag{14}$$

1

ABCdef12