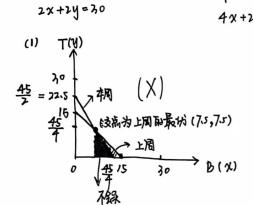
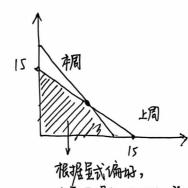
4. 上周 num 7.5 7.5

num 7.5 7.5

C = 4×75 = 30

c= bx75= 45 4x + 2y = 45





(2) 这里分析替代效应 (初版的 公內以)(0)

之削录得起,但不买,说明效用更低

因为: P(x+py= P(x'+p'y' (其中 (x',zy))为 本周最优 bundle)

(xhy)=17.5,75)和(x'·y')在v=45采得起 矾

录3 (x',y'), 放 c=30 时采花(x',y')

Pχ'+By'> P×+By

8- 1x+54 < 1x+84

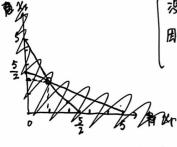
** P-P- < \$(4-4) = B (x-X)

 $(p_{i}'-p_{i})(x'-x)<0$

9-MO= PIX+BY

0 m Px+ Py 5 P/x+ Py

PATRY CHAPPY



case D

case 1 Case \$2

(b) 不购买: 90% 1b.44 5% 9 488 0% 4

$$\triangle : EU_2 = 0.9 \times \sqrt{16} + 0.05 \times \sqrt{9} + 0.05 \times \sqrt{4}$$

= 0.9 × 4 + 0.05 × 7 = 3.6 + 0.35 = \$3.95

(c) EU1 > EU2 R* 2 6.68 \$\text{ \$R\$ \in \text{\$L\text{\$\delta\$}}\text{\$\delta\$}.

A的EU: EUA= 1.50+12·20=36

B 取助: EUB= 文的+文30=35

$$argmax EU(d) = \frac{1}{7} \cdot \sqrt{2500} d + 1600(1-d) + \frac{1}{7} \sqrt{400} d + 900(1-d) = \frac{1}{2} \sqrt{1600 + 900} d + \frac{1}{2} \sqrt{900 - 500} d$$

$$argmax EU(d) = argmax \frac{5(1b + 9d - 9 + 5d)}{\sqrt{16 + 9d} - \sqrt{9 - 5d}} = 5(\sqrt{16 + 9d} + \sqrt{9 - 5d}).$$

$$= argmax \frac{5(7 + 4d)}{\sqrt{16 + 9d} - \sqrt{9 - 5d}}$$

$$\frac{dEU(0)}{dz} = \frac{5}{7} \left(\frac{9}{\sqrt{16+9a}} - \frac{5}{\sqrt{9-5a}} \right) = 0 \Leftrightarrow A^* = \frac{47}{90}$$

树肿蝇的!