## Soraf Pernyalaan Kejujuran Akademik

Dalam yjian matakuliáh Matematika Lanjutan ini.

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Saya munyalahan dengon sejujunya bahwa:

- 1. Saza fidah menerima dan atau fidak memberikan bantuan dalam bartuh apapen kepada mahasiswa lain dalam mengerjahan saal ejian
- 2. Saya flowh melabehan pladasi aclas peterjaen onang lain dan Mengahoinya sebagai peterjaan saya
- 3. Saya memahami bahwa segala fluddhan lucurangun aluan mendapatkun hukuwan sesual dengan alman yang berlahu pada Fuludluo Ekonoul dan Bisnis Universitas Indonesia.

Depole, 03 November 2020 Yudhlstina Gowo Samlaji Soal 1.

a. U=2x2+8xy+4y2+18

St. 20x + 30y < 250 -> 2x+3 x < 25

20x

-> 2x

X, Y

6 2 = 2x2+8xy + 9x2+18+ L(25-2x-3y)+ Ø(1-2x)

c. bl = 4 x18y + (-21) + (20) = 0

 $\frac{3\lambda}{9\Gamma} = 8x + 8\lambda + (-3V)$ 

3/ = 25-2x-3y

 $\frac{31}{36} = 1 - 2x$ =0

d. 1 x >0; y >0; L >0; # >0

 $\frac{\partial \lambda}{\partial y} : 0 = 1 - 2x$   $\frac{2x = 1}{|x = \frac{1}{2}|} \checkmark$ 

 $\frac{3 \lambda}{3 \gamma}, 0 = 8(\frac{1}{2}) + 8(8) - 3\lambda$   $\frac{3 \lambda}{\lambda} = 4 + 64$   $\lambda = \frac{68}{3}$ 

 $\frac{\partial \mathcal{L}}{\partial \lambda} \cdot O = 25 - 2\left(\frac{1}{2}\right) - 3\gamma$   $\frac{3\gamma - 24}{\gamma - 8|\gamma}$   $\frac{\partial \mathcal{L}}{\partial x} \cdot O = 4\left(\frac{1}{2}\right) + 8\left(8\right) - 2\left(\frac{68}{3}\right) - 2d$ 

 $20 = \frac{108}{3} - \frac{116}{3}$   $0 = \frac{62}{8}$ 

UTS Medancelly Elarani 1

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Dosen: Prof. Nachrows.

Soal 2:

UTS Maedmatha Ekonomi 1

Nava: Yudistha GoaG Santajl

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Dosur : Prof. Nachrowl.

D(@) = S(@) a.

$$\frac{100}{\sqrt{0}} = \sqrt{0}$$

$$\frac{100}{\sqrt{0}} = \sqrt{4}$$

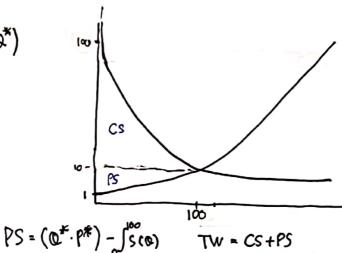
$$\frac{100}{\sqrt{0}} = \sqrt{4}$$

$$\frac{100}{\sqrt{0}} = \sqrt{4}$$

$$\frac{100}{0^{1/2}} = 0^{1/2}$$

P\* = D(Q\*)

$$P^* = \frac{100}{10}$$



b. Cs = 5000 - (a\*. p\*)

C. MR(a) = TR'

$$P^* = \frac{100}{\sqrt{6}}$$

= (100.10) - 50042

= (1000) - [(100) 3/2.2]

= 1000 - 463

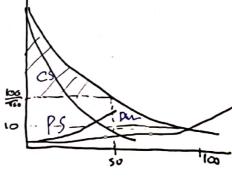
 $P5^* = 333\frac{1}{3}$ 

$$= (0^{2} \cdot p^{2}) - \int_{0}^{\infty} s(0) \qquad TW = Cs + PS$$

$$= (100 \cdot 10) - \int_{0}^{\infty} 0^{42} \qquad = 1000 + 333 \frac{1}{3}$$

$$= (1000) - \left[ 0^{3/2} \cdot \frac{2}{3} \right]$$

$$= (1000) - \left[ 0^{3/2} \cdot \frac{2}{3} \right]$$



WEM = ESM + PSM = 707.1068 + 47 1.9045 = 1178.5113

Menbandingkon Welfere B dan C. dapat disimpulian bahaa monopoli fleah depart memahs!mallow Welfare.

Scal 3' UTS Malematilia Euronamis Nama: Yol415tha 65 (3+2+ayt) dt + (2+2+24) 470 NPM : 190636049) Doren: Prof Nathrow 7(7.5) = 10 \* M-3E a. M = 3F; N = 3F ·3+2+47+ = 4+4+4(+) 1 = 3 H  $3t^2 = \psi(t)$ Y(t) = 53+2 9t = 9t = +3+K F = SNY+ (4) F(Y,f) = (2+2+27) by + 4(t) = 2t2y + y2+(t) F(Y,t) = 2+27+72+ +374  $= \mathcal{I}(2t^2+y^2) = C-t^3$  $(y^2 + 2ty + e^4) - t^4 = c - t^3$  $(y+t^2)^2-t^9=c^{-1}t^3$ (y+t2)=c-t3+t4 7+t2=1C-t3+t4 7=VC+3+49-t2 7(1.5) = 10  $10 = \sqrt{C - (7.5)^3 + (7.5)^9} - (7.5)^2$ 10 = 7 C-(G21,87>)+(3,169,0625 - S6.25 Fungst divergen Claning Clase-200 = 40 (CC.25) = C - 2742, 1875 4389.0625 + 2,792.1895 = C C = 7,131.25 ->  $Y(t) = \sqrt{7,131.25-t^3+t^9}$  -2 Y(6) = \$ 7,131.25-63-69 - 80 Y(3) = 77,171.25-33,59-32 b. 7(0) = 17,131.25-0+0-0 2 75.7659 7(4) = \$\frac{7.171.25-\text{93+49}}{7.171.25-\text{93+49}} -92 2 59.6159 = [84.4967] Y(0) = 17.151.25-1+19-12 =69.576 = 83.4467 Y(s) = 17,131.25-52+59 -50 /(2) = 17,13125-23+24 -22 = 62.357 = 80.499

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$$P_{p}: P'=0; P'=0 \qquad a_{1} = -18$$

$$P_{p}: SP = 40S \qquad a_{2} = 81$$

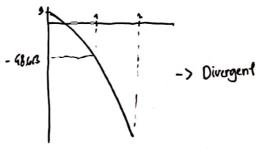
$$P_{p} = 5 \qquad b = 40S$$

$$a_1^2 = 4a_2$$
 $(-18)^2 = 4(81)$ 
 $324 = 324$ 

$$a_1^2 = 4a_2$$
  $\Rightarrow r_1 = r_2 = -\frac{a_1}{b} = -\frac{18}{2} = 9$   
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 $(-18)$ 

$$26 = 9(4) + A_2 e$$

C. 
$$P(1) = 4e^{0} - 10e^{9} + 5 = -6e^{9} + 5 = -48.613.50$$
  
 $P(2) = 4e^{12} - 20e^{18} + 5 = -16e^{18} + 5 = -1.050.554.501$   
 $P(3) = 4e^{27} - 30e^{27} + 5 = -26e^{27} + 5 = -1.36332543 \times 10^{13}$ 



# Divergent having lime->00 et =00