



Antal blad /  
Number of sheets

11 ✓

# TENTAMEN / EXAMINATION

- Anvisningar:** Skriv din anonymitetskod på varje blad.  
Endast en uppgift får lösas på varje blad.  
Var vänlig skriv tydligt!
- Instructions:** Write your anonymous code on each sheet.  
Answer only one question on each sheet.  
Please write clearly!

Vänligen texta anonymitetskoden i textboxen enligt exempel nedan!  
Please write the Anonymous Code clearly in the textbox like example below!

**Bokstäver/Letters:**

A-B-C-D-E-F-G-H-I-J-K-L-M-N-O  
P-Q-R-S-T-U-V-W-X-Y-Z-Å-Ä-Ö

**Siffror/Numbers:**

Ø-1-2-3-4-5-6-7-8-9

Exempel:

A	B	C	1	7	Ø	-	Ø	1	7
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NEGBØ1-Ø34

Kurskod + Kurs / Course Code + Course:

Miljöekonomi B

Delkurs / Part course:

Anonymitetskod / Anonymous code = Kurskod + kodnr / course code + code number									
N	E	G	B	Ø	1	-	Ø	3	4



Tentamensdatum / Examination date:	
14	16

## Behandlade uppgifter / Solved problems

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
X	X	X	X	X	X	X								
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

## Ifylles av lärare / To be completed by the examiner

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
10,5	3	4	2	0,5	7,25									
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Poäng / Marks gained: 15,5

Betyg / Grade: G

kk  
Examin. lärare / Kursansvarig signatur / Signature of the examiner

Max poäng / Total marks gained: \_\_\_\_\_

Namnförtydligande / Clarification of the signature

För Gk poäng / Marks gained to be passed: \_\_\_\_\_



Negb01-034

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1.  $P_L = W$

$T = \text{time}$

$T = 12 = L + A$

$C_L(W, L) = W \cdot L$

$A = \text{At work}$   
 Cost for leisure.

where is your answer?  $\textcircled{0}$

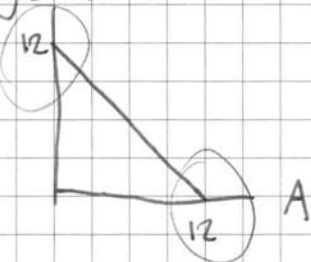
Uppgift nr /  
 Question no:

Poäng / Points  
 awarded:

Lärarens  
 anteckning  
 Examiner's remarks:

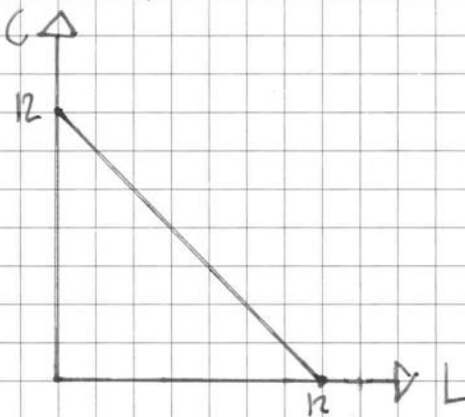
(b)  $T = L + A$

$A = \text{At work}$



$\textcircled{2}$   $\textcircled{0}$

(c)  $U = \sqrt{C \cdot L}$



$U^2 = C \cdot L$      $L = \frac{U^2}{C}$

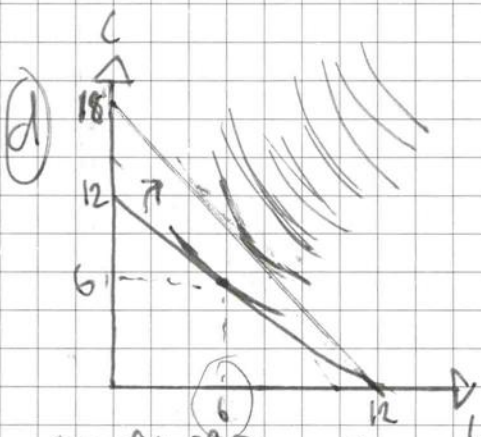
$C = \frac{U^2}{L}$

$U = C^{0,5} \cdot L^{0,5}$

$U'_L = 0,5 C^{0,5} \cdot L^{-0,5}$

$U'_C = 0,5 C^{-0,5} \cdot L^{0,5}$

answer?  $\textcircled{0}$



Wage increase results in her possibility to consume more but her <sup>possibl</sup> time for leisure is not changed

Since the  $MRS = \frac{MU_L}{MU_C}$

$\frac{0,5 C^{0,5} L^{-0,5}}{0,5 C^{-0,5} L^{0,5}} = \frac{C}{L}$

she values consumption and leisure the same. But now she can afford more

$\textcircled{0,5}$





1d) consumption but with the same leisure.

$$x(m, p) - x(m, p) = \text{sub} \quad ? \quad \text{don't know}$$

$$x(m, p') - x(m, p) > \text{inc} \quad ? \quad \text{what you're doing.}$$

She still wants the amounts of  $C$  and  $L$  to be the same to maximize  $U$ . To do this she will change  
 example 50% pay raise.

Earlier she works  $L=7$

$$\frac{6 \cdot 1}{6 \cdot 1} = 1 \quad \text{now} \quad L=1,5 \quad ?$$

now  $L$  is still 12 but max  $C$  is now 18

$$\frac{P_C \cdot C}{P_C \cdot C} = 1$$

$$\frac{1,5C}{L} = 1$$

$$1,5C = L$$

$$L = 12 - C$$

$$1,5C = 12 - C$$

$$2,5C = 12$$

$$C = 4,8$$

$$L = 12 - C$$

$$L = 7,2$$

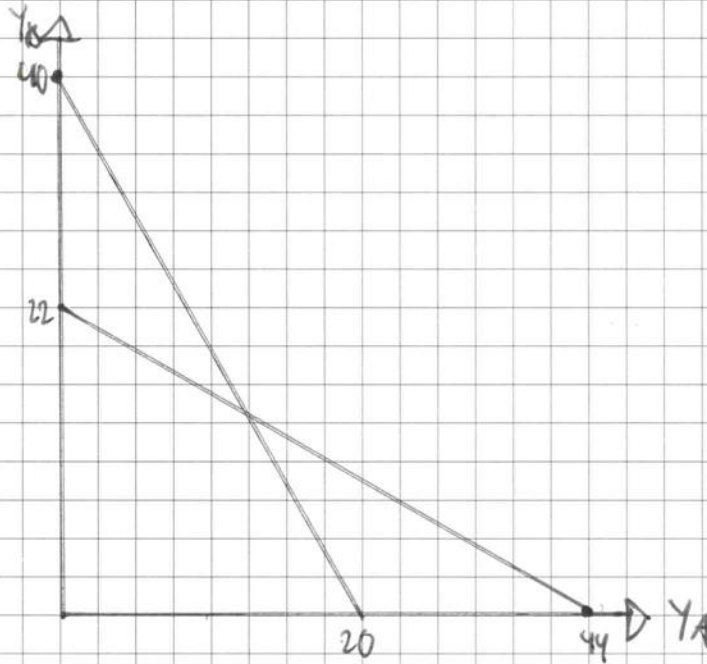


NE6301-034

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2.  $P = 100 - 2Y$   
 $Y = 50 - \frac{P}{2}$   
 $Y = Y_A + Y_B$   
 $MC_A = 12$   
 $MC_B = 20$

$r = \text{revenue}$   
 $\Pi = \text{profit}$



$r_A = P \cdot Y_A$

$r_B = P \cdot Y_B$

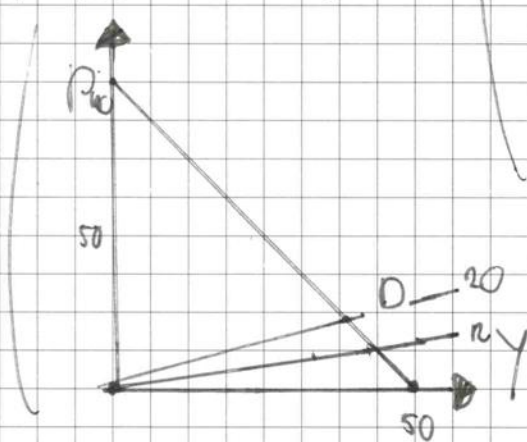
$\Pi_A = r_A - C_A = r_A - Y_A \cdot 12$

$\Pi_B = r_B - C_B = r_B - Y_B \cdot 20$

$\Pi_A = Y_A (P - 12)$

$\Pi_B = Y_B (P - 20)$

$P = 100 - 2Y_A - 2Y_B$



$C_A = MC_A \cdot Y_A$  då vi ej har pris

$C_B = MC_B \cdot Y_B$

$MC = P$  i kompletta marknad

$MC_{tot} = P$

$32 = 100 - 2Y$

$2Y = 68$

$Y = 34$

$12 = 100 - 2Y_A - 2Y_B$

$20 = 100 - 2Y_A - 2Y_B$

$Y_A = 44 - Y_B$

$Y_B = 40 - Y_A$

Jag skall på något vis  
 sätta de två varandra  
 men jag minns ej hur.  
 Jag tror jag ska

den vara med avseende på  $Y_A/Y_B$  men minns ej det  
 heller.

Nej

Uppgift nr /  
Question no:

Poäng / Points  
awarded:

0,5

Lärarens  
anteckning  
Examiner's remarks:

Du skriver  
inte  
vad du  
gör -  
Svårare  
ge  
poäng  
då.

















