



TENTAMEN / EXAMINATION

12307683

Fylls i av **student** / To be completed by the **student**

Skriv anonymiseringskoden på samtliga svarsblad / Write your anonymity code on each sheet		Anonymiseringskod / Anonymity code	
		N E G B 0 1 - 0 0 0 7 - A L Z	
Provbenämning / Exam name		Öanmald	
Mikroekonomi			
Kurskod / Course code	Modul / Module	Tentamensdatum / Examination date	
N E G B 0 1	2 0 0 2	2 0 2 5 - 0 3 - 2 6	
Jag har tagit del av regler som gäller vid tentamen / I have read the current rules for examinations		Antal inlämnade blad med anonymiseringskod / Number of sheets with anonymity code	
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Bedömning av uppgifter / Questions attempted										
1	2	3	4	5	6	7	8	9	10	~
3	5,25	3	2,5							
11	12	13	14	15	16	17	18	19	20	~
21	22	23	24	25	26	27	28	29	30	~
Totalt antal poäng / Total points				Examin. lärare / Kursansvarig signatur / Signature of the examiner						
19,75										
Betyg / Grade				Namnförtydligande / Clarification of the signature						
VG										

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Färsättsbladet ska alltid lämnas in även om ingen uppgift behandlats /
Examination should always be submitted even if no questions are answered

Utskriven 2025-03-13 kl. 11:55:22

NEGB01/NEGB25
2025-03-26

Dinky Daruvala
Microeconomics
Part 1,
Q 1-4

Anonymous examination code: NEGB01-0007-AL2

Please, write your anonymous examination code on
each answer sheet

✓



Vid icke anonym tentamen ange kurskod + personnummer
For non-anonymous exams write the course code + civic registration number

Löpande sidnr
Consecutive no:

Ne9B01-0007-AL2

Uppgift nr /
Question no:

1

Poäng / Points
awarded:

3

Lärarens
anteckning

Examiners remarks:

Skriv ej i det.
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9) Svar: it depends on which port that

has the highest elasticity, if the

elasticity of demand is higher than elasticity

of supply, then the producers bear most of

the tax, and if elasticity of supply

is higher than elasticity of demand, then

consumers bear the higher burden of the

tax.

b)

$$\frac{ES}{ES+ES} = \frac{0.5}{2.5} = 0.2$$

Share: 20% of the tax

will be borne by the

producers.

no, 20%
paid by
the buyers

0.5

Fråga 7 forts

Svar:

c) in the long run the supply curve will be horizontal, this means that $E_S \rightarrow \infty$. This means that the entire tax burden to the consumers but changing the price on the market so that the consumers pay for the tax as well as for the good. The market price can not adapt to that level in the short run. The producers adapt the market price in the long run so that consumers bear the burden of the tax.

1.5

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NEG B01-0007-AL2

3

Löparens sidnr
Consecutive no:

Uppgift nr /
Question no:

7

Poäng / Points
awarded:

Lärarens
anteckning
Examiner's remarks:

NE6B01-0007-AL2

h

2

5.25

antecurving

Fr 90 2

a) however small

Opportunity cost

the alternative

Cost is 0.5
x2 per x1

slope = $-\frac{p_1}{p_2} = -0.5$

Start:

20

Units

b) because $U(x_1, x_2) = (x_1^2, x_2^2, x_2 + 12)^3$



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Löparens sidnr
Consecutive no:
5

Uppgift nr /
Question no:
2

Poäng / Points
awarded:

Lärarens
anteckning
Examiner's remarks:

Fråga 2 forts

b) → both utility functions

represents the same demands and the

same indifference

curves, only the

numbers associated with

the utility is

changed, both

will result in the

demands

$$x_1 \geq 0,4 \cdot \frac{m}{p_1} \text{ and}$$

$$x_2 = 0,6 \cdot \frac{m}{p_2}$$

Svar: because the

functions are
homothetic trans-
formations of
each other.



Skriv ej i den...
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Löpande sidnr
Consecutive no:

Uppgift nr /
Question no:

2

Poäng / Points
awarded:

Lärarens
anteckning

Examiner's remarks:

Fråga 2 forts

$$c) \quad MRS = \frac{MU_{X1}}{MU_{X2}}$$

MU_{X2}

$$MU_{X1} = 0,4 X_1 - 0,6$$

$$MU_{X2} = 0,6 X_1 - 0,4 X_2$$

$$0,4 X_1 - 0,6$$

$$0,6 X_1 - 0,4 X_2$$

$$S: \text{multiplik} = \frac{1}{2} X_1 - 1 X_2$$

$$= \frac{3}{2} \cdot \frac{1}{X_1} - \frac{1}{X_2} = \frac{2 X_2}{3 X_1}$$

$$S: \quad MRS = \frac{2 X_2}{3 X_1}$$

When both consumers (2,3)

$$MRS = \frac{2-3}{3-2} = \frac{6}{6} = 1$$

this means that at

this bundle (2,3) →

Skriv ej i detta område.
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Löpande sidnr
Consecutive no: 7

Uppgift nr /
Question no: 2
Poäng / Points
awarded:
Lärarens
anteckning
Examiner's remarks:

Skriv ej i den.
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Fråga 2 forts

C) he is willing to give

up 1 hour's work
for 1 cup of
vice versa coffee

Kvoten mellan varorna

är = 1).

Svar: $MRS = \frac{2x_2}{3x_1}$

(2,3) dvs $MRS = 1$.

d) to maximize utility

$\frac{MU_1}{MU_2} = \frac{P_1}{P_2}$ and we

know that $MRS = \frac{2x_2}{3x_1}$

$\frac{2x_2}{3x_1} = \frac{P_1}{P_2}$ because this

is a Cobb-Douglas

utility function we

know that

$$\frac{2d}{1d} = \frac{1 \times 8}{2 \times 6} \quad \text{in } 2190, d$$
$$\begin{array}{r} 1d9 \\ \hline m8 \end{array} \leftarrow$$
$$\frac{129}{46} \leftarrow$$
$$\text{error} = \max: \frac{2 \times 2}{3 \times 1} = \frac{p_2}{p_1}$$
$$x_2 = \frac{0.6m}{p_2}$$


Löpande sidnr Consecutive no.: 9	Ange anonymitetskod / Write your anonymity code (Vid icke anonyma tentamen ange kurskod + namn + personnummer) (For non-anonymous exams write the course code + name + civic registration number) NEG801-0007-ALZ	Uppgift nr / Question no.: 2 Poäng / Points awarded: Lärarens anteckning Examiner's remarks:	Fråga 2 forts c) Svar: $X_1 = 0,4m$ p_1 and $X_2 = 0,6m$ p_2 Means that he will diverts split his in- come so that he spends 40% of his income on food 1, and 60% of his income on food 2 → hence 2% preferences.
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Skriv ej i detta område
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NE6B01-0007-ALZ

10

Löpande sidnr
Consecutive no:

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a)

Fråga 3

$$C1 = 10000 \quad \pi_1 = 0,4$$

$$C2 = 2500 \quad \pi_2 = 0,6$$

$$U(C1) = \sqrt{W}$$

$$EU_{provision} = 0,4 \cdot \sqrt{10000} + 0,6 \cdot \sqrt{2500}$$

$$= 70$$

EU fixed must be at least

= EU provision

$$\sqrt{W} = 70$$

$$W = 70^2$$

$$W = 4900$$

Bar: a wage of minimum

$$4900$$

Uppgift nr /
Question no: 3
Poäng / Points
awarded: 3
Lärarens
anteckning
Examiner's remarks:

svar: She would be willing
 to pay max ca 1379 kr

$$X = 1378,88$$

$$-X \approx -1378,88$$

$$10000 - X = 8621,12$$

$$\sqrt{10000 - X} = 92,85$$

$$0,4$$

$$0,4$$

$$0,4 \cdot \sqrt{10000 - X} = 87,14$$

$$0,4 \cdot \sqrt{10000 - X} + 92,86 = 70$$

$$-92,86 \quad -92,86$$

$$0,4 \cdot \sqrt{10000 - X} + 0,6 - \sqrt{8000} = 70$$

$$EU_{deal} = EU_{no deal}$$

$$C2 = 2500 + 500 = 3000$$

$$C1 = 10000 - X$$

Fråga 3 forts

Examiners remarks:

Lärarens
anteckningPoäng / Points
awarded:Uppgift nr /
Question no: 3Löpande sidnr
Consecutive no: 11

NEGB01-0007-ALZ
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Löpande sidnr Consecutive no.: 12	Uppgift nr / Question no.: 3 Poäng / Points awarded: 3 Lärarens anteckning Examiner's remarks:	Fråga 3 forts ① if she is risk neutral her utility of made is $U(W) = W$. if there is no deal her utility is 0. $EU_{\text{deal}} = EU_{\text{no deal}}$ $0.6 \cdot (-500) + 0.4 \cdot (X) = 0$ $-300 + 0.4X = 0$ $-300 = -0.4X$ $(X = 750)$ Swat: she will head at least 750 when Sarah has a good month.
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NEGB01-0007-AL2
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Skriv ej i detta område
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a Nash equilibrium is
 when a certain outcome
 is the best possible
 for both. in a Nash
 equilibrium, there is
 no way to change the
 outcome in a way
 that makes both
 parties better off.
 if you make one
 better off, the
 other will be worse
 off.



Svar: Charlene has a dominant
 strategy to don't clean,
 this is because her
 utility of don't clean
 is the highest indep-
 endent of whether
 Sandra cleans or
 not. Sandra does
 not have a dominant
 strategy.

Fråga 4

Skriv ej i detta område
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 NEGB01-0007-ALZ

Löpande sidnr
 Consecutive no:
 13

Uppgift nr /
 Question no:
 4

Poäng / Points
 awarded:

Lärarens
 anteckning
 Examiner's remarks:

Fråga 4

→ In this game there

are two Nash eq-

uilibrium, and that

is (Clean, Clean)

in this situation, Ron

can't make one person

better off without

making the other

person worse off.

The same goes for the

second Nash equilibrium

(Don't clean, clean).

The first I left out come

of this game is (don't clean, clean).

This is because Charlie

will always follow her

dominant strategy and

choose don't clean,

Sandra knows this and

will clean as $20 > 15$.

the outcome is

→ (30, 20).

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Uppgift nr / Question no: 4
Poäng / Points awarded: 25
Lärarens anteckning / Examiner's remarks:

Löpande sidnr / Consecutive no: 14

→ Yes the outcome is
 Pareto efficient, this
 is because you can't
 change the outcome
 from there to another
 outcome that will
 make both better off.
 If you choose the
 outcome, one part
 at least will be worse off.
 Both are playing their
 strategies to get as
 good off as possible.
 Given their expectations
 about the other
 persons choice.

Fråga 4 forts

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 NE6 B01-0007-AL2

15

Löpande sidnr
 Consecutive no:

Uppgift nr /
 Question no:

Poäng / Points
 awarded:

Lärarens
 anteckning
 Examiner's remarks:

NEGB01/NEGB25
2025-03-26

Henrik Jaldell
Microeconomics
Part 2,
Q 5-10

**Please, write your anonymous examination code on
each answer sheet**

Anonymous examination code: NEGB01-0007-AL2



NEG601-0007-AL2 2

Uppgift nr /
Question no:

5

Poäng / Points

awarded:

Lärares

anteckning

Examiner's remarks:

Skriv ej i detta.
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Fråga 5

Part 2:

$$U(0, m) = 50 \cdot 0^2 + 0,02 \cdot (400)^2$$

$$U(1, m-r) = 50 \cdot 1^2 + 0,02 \cdot (400-r)^2$$

$$50 \cdot 0^2 + 0,02 \cdot (400)^2$$

$$= 3200$$

$$3200 = 50 \cdot 1^2 + 0,02 \cdot (400-r)^2$$

$$3200 = 50 + 0,02 \cdot (400-r)^2$$

$$3150 = 0,02 \cdot (400-r)^2$$

$$\frac{3150}{0,02}$$

$$157500 \geq (400-r)^2$$

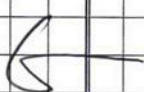
$$396,863 = 400-r$$

$$-3,137 = -r$$

$$r = 3,137$$

$$\text{Svar: } r = \text{ca } 3,137$$

(for one piece of candy).



Fråga 6

homothetic means that preferences are the same proportion of income is spent on each good independent of if income increases. for example cobb-douglas betweeen apples and bananas $U(A, B) = A^{0.5} \cdot B^{0.5}$ means that he will always spend 50% of his income on apples and 50% of his income on bananas. Engel curve is a straight line. quasilinear preferences

Given is the case if one of the goods is a utility function is income independent.



Skriv ej i den.
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Löpande sidnr
Consecutive no:

3

Uppgift nr /
Question no:

6

Poäng / Points
awarded:

1/5

Lärarens
anteckning
Examiner's remarks:

For example on
 preferences

$$: U(x, y) \geq y + x$$

 here x will be income
 independent which
 means that the
 same amount of x
 is always bought if
 independent of y
 his income changes.
 only price changes
 can change his
 consumption of x
 when income.

Fråga 6 föres

Skriv ej i den.
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 (Vid icke anonym tentamen ange kurskod + namn + personnummer)

Löpande sidnr
Consecutive no.: 4

Uppgift nr /
Question no.: 6

Poäng / Points
awarded:

Lärarens
anteckning
Examiner's remarks:

the substitution effect
will be negative, which
means that she will
trade leisure for labour
which gives higher income.
but the income effect
is positive, which means
that when her wage
gets high enough
she will prefer more
leisure to move labour.
this means that depending
on if the substitution
effect or the income effect
dominates, the person
will work more or less
as wage / income increases →

$$\frac{\Delta R}{\Delta m} = \frac{\Delta R^S}{\Delta m} + \frac{\Delta R^M}{\Delta m} (1 - \epsilon)$$

Start: if we have a
substitution equation of
leisure (fritid)

Fria 007.

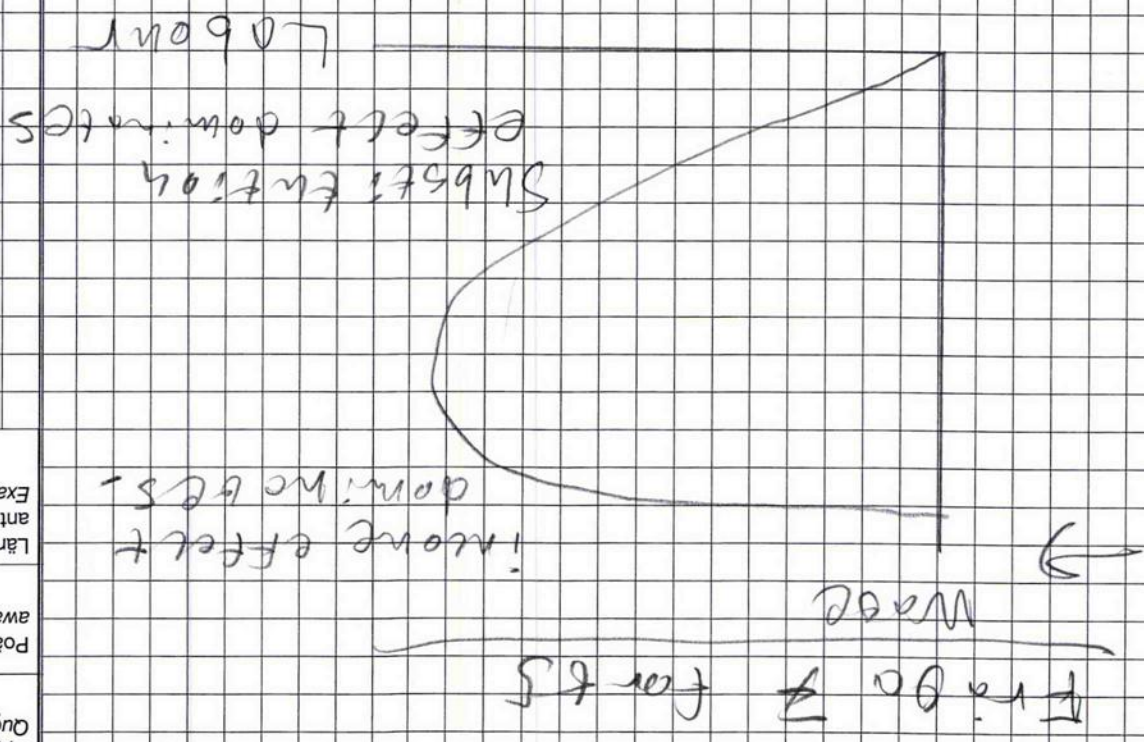
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Läroplan sidnr
Consecutive no: 5
Uppgift nr /
Question no: 7
Poäng / Points
awarded: 15
Lärarens
anteckning
Examiner's remarks:

When the time is short
 upwards sloping, ΔR
 dominates $\rightarrow$ she will work more and decrease leisure.
 Let's see.
 When the time is short
 downwards sloping, ΔR
 dominates $\rightarrow$ she will work more and decrease leisure.
 Let's see.
 When the time is short
 upwards sloping, ΔR
 dominates $\rightarrow$ she will work more and decrease leisure.
 Let's see.



Skriv ej i detta område
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Löpande sidnr
 Consecutive no: 6

Uppgift nr / Question no: 7
 Poäng / Points awarded:
 Lärarens anteckning
 Examiner's remarks:

The Coase theorem states that if property rights are well defined and transaction costs are low, then the parties can always negotiate and solve for the efficient outcome. In the case of which part of the rights are well defined.

Over: definition of externalities: When one firm's production or consumption affects another firm or consumer in some way and the affected firm or consumer cares about it.

Fråga 8

Skriv ej i detta område
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NEG601-0007-ALZ
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Löpande sidnr
Consecutive no:

7

Uppgift nr /
Question no:

8

Poäng / Points

awarded:

Lärorens

anteckning

Examiner's remarks:

Red. ägare (alla)
och (delvis) löpande



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8

Löpande sidnr
Consecutive no:

Uppgift nr /
Question no:

9

Poäng / Points

awarded:

Lärarens

anteckning

Examiner's remarks:

Star: this expression
is relevant when it
comes to public goods

(pure public goods) and it
meals that the sum
of the marginal benefit
for two individuals
of butting / consuming
a pure public good
should be equal
to the marginal
cost of butting / con-

suming the pure
public good. If
X is a public good for
individuals A and B and
R is their common
portion of private
goods then →

$$MU_A + MU_B = MC_{A+B}$$

the sums of the trade off between
the public good and private goods →

Löpande sidnr Consecutive no.: 9	Änge anonymitetskod / Write your anonymity code (Fid ikke anonym tentamen ange kurskod + namn + personnummer) NE6B01-0007-ALZ	Uppgift nr / Question no.: 9 Poäng / Points awarded: / Lärarens anteckning Examiner's remarks:	Fråga 9 forts → for the two individuals A and B should be equal to the MC of the public good if both parties should be better off if the corruption of the public good.
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Skriv ej i detta.
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NEGBO1-0007-ALZ

10

Löpande sidnr
Consecutive sidnr

Uppgift nr /
Question no:

10

Poäng / Points

awarded:

Lärens

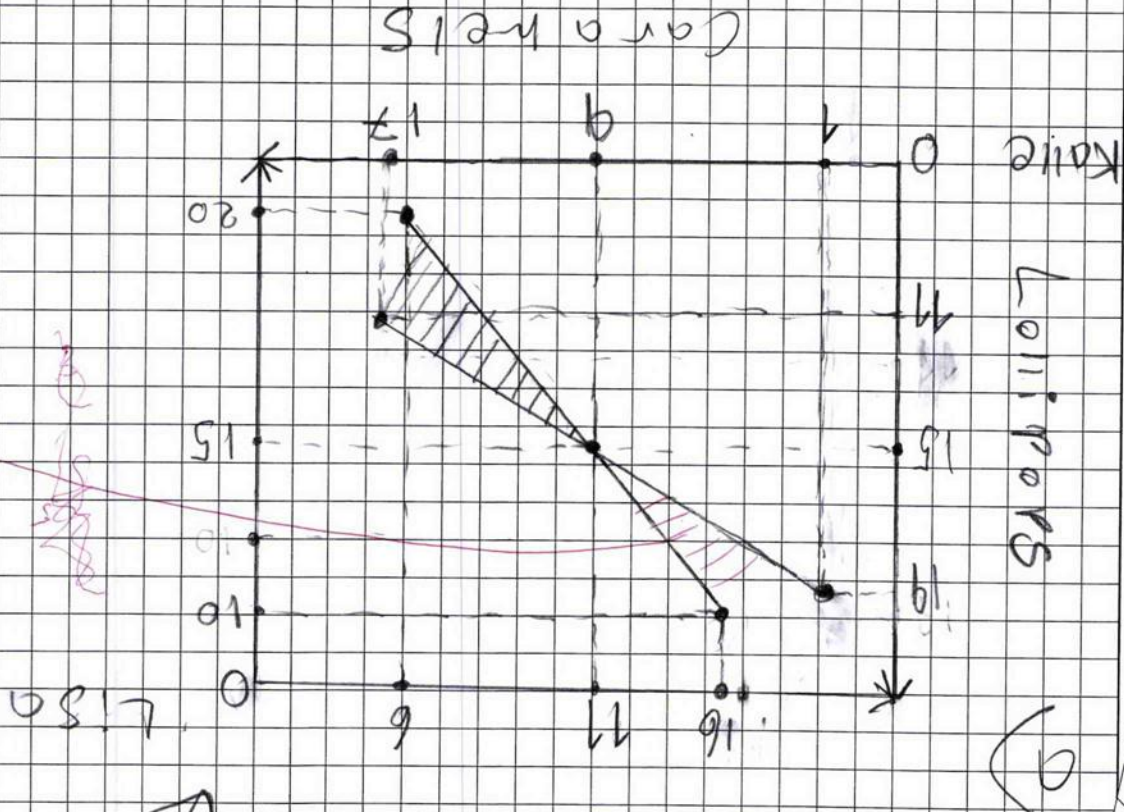
anteckning

Examiners remarks:

Skriv ej i detta.
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Fråga 10

Svar: ↗



b)

Svar: Ja, det är möjligt
att de är både bättre
av till den södra änden
av den originala endon-
ment point, så det
kan trade and be
better of in the
area in the
edge worth box.





Skriv ej i detta område.
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NE6B01-0007-ALZ

Löparens sidnr
Consecutive no:

11

Uppgift nr /
Question no:

10

Poäng / Points
awarded:

Lärarens
anteckning
Examiner's remarks:

Fråga 10 part 2 forts

→ c) Kalle is willing to

Svar: sacrifice 5 cars

to gain 3 Lottopops

so the relative price

would be $\frac{3}{5} = 0.6 \text{ C/L}$

and $\frac{3}{5} = 1.6 \neq \text{C/L}$

Lisa is willing to sacrifice
4 Lottopops for 5 more

Cars means, so the

relative price would

be $\frac{4}{5} = 1.25 \text{ C/L}$

and $\frac{4}{5} = 0.8 \text{ C/L}$

the prices of trading

must for between

these, so the prices must

be:

Svar →

$0.6 \text{ C/L} < \text{PLC} < 0.8 \text{ C/L}$
and $1.25 \text{ C/L} < \text{PLC} < 1.6 \neq \text{C/L}$