KARLSTADS UNIVERSITET

8164617

TENTAMEN / EXAMINATION

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*: NEGA10 - 0005 - BTL

Provbenämning / *Exam name*: Mikroekonomi och internationell handel

Oanmäld:

Kurskod / *Course code*: NEGA10

Provkod / *Exam code*: 1000

Tentamensdatum / *Examination date*: 2018 - 10 - 17

Jag har tagit del av regler som gäller i tentamenssalen / *I have read the current exam hall rules*: ☒ Ja / *Yes*

Antal inlämnade blad / *Number of sheets*: 12

Fylls i av **skrivvakt** / *To be completed by the* ***invigilator***

Kontroll av legitimation / *Identification checked*: ☒ Ja / Yes

Kontroll av inlämnade blad / *Answer sheets checked*: ☒ Ja / Yes

Inlämningstid / *Time of submission*: 11:59

Härmed intygas att ovanstående kontroller utförts / *This is to certify that the above mentioned checks have been carried out*

Tydlig sign. / *Signature*

Fylls i av **lärare** / *To be completed by the* ***examiner***

Bedömning av uppgifter / Questions attempted

1	2	3	4	5	6	7	8	9	10	~
6,5	1,5	1,5	3,5		8					

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*: 21

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

Betyg / *Grade*: G

Namnförtydligande / *Clarification of the signature*

8164617

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

Utskriven 2018-10-10 kl. 10:58:36

1

Anonymitetskod Nega10-0005-BTL

FLERVALSFRÅGOR **(OBS! Endast 1 svar på varje fråga)**

FRÅGA	RINGA IN RÄTT SVAR			
1	(A)	B	C	D
2	(A)	B	C	D
3	A	B	(C)	D
4	A	B	(C)	D
5	A	B	C	(D)
6	A	(B)	C	D
7	A	B	C	(D)
8	A	B	C	(D)
9	(A)	B	C	D
10	A	B	(C)	D
11	(A)	B	C	D
12	A	(B)	C	D
13	A	(B)	C	D
14	~~A~~	~~B~~	~~C~~	~~D~~
15	A	B	C	(D)
16	(A)	B	C	D
17	A	(B)	C	D
18	(A)	B	C	D
19	(A)	B	C	D
20	A	B	C	(D)

16R
8p

~~A~~ D är rätt på 14

Fel svar ger ej poängavdrag.

No points will be deducted for the wrong answer

Nega 01/10 2018-10-17 08,15-12,15

PART TWO

Uppgift nr / *Question no:* 1

Poäng / *Points awarded:* 5

Lärarens anteckning *Examiner's remarks:*

question 1

$TC = 400 + q^2$

$MC = 2q$

$P = 120 - q$

a) Profit maximizing is $MC = MR$

$MC = 2q$

$MR = P/D \cdot 2$ $MR = 120 - 2q$

$2q = 120 - 2q$

$+2q \quad +2q$

$\frac{4q}{4} = \frac{120}{4} = 30$

$q = 30$

$P = 120 - q$

$P = 120 - 30$

$P = 90$

$TR = 30 \cdot 90$

$TR = 2700$

total PROFIT is TR - TC

$2700 - 1300 = 1400$

$TP = 1400$

$TC = 400 + 30^2$

$TC = 1300$

answer: $q = 30$ the monopolist will charge a price of 90 and the profit at this level will be 1400

1,5

R

Häftområde

Skriv ej i detta område
Leave this area blank

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Nega10-0005-BTL

Löpande sidnr
Consecutive no:
3

Uppgift nr / *Question no:*
1

Poäng / *Points awarded:*
6,5

Lärarens anteckning
Examiner's remarks:

Nega 01/10 2018-10-17 08,15-12,15

PART TWO

question 1

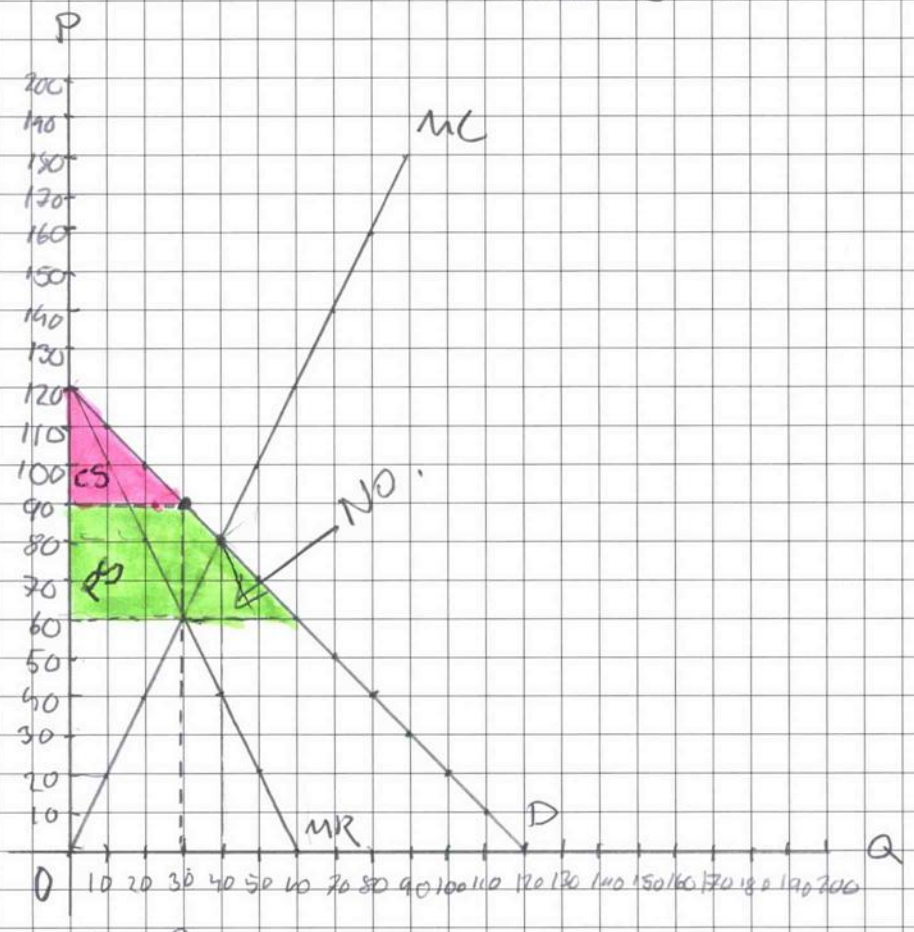
b) $\frac{1}{1} \cdot \frac{90}{30} = 3$

$\frac{\Delta Q}{\Delta P} \cdot \frac{P}{Q}$ answer: $P_E = 3$ R

Price is elastic

1

c)



1

$MC = 2q$

$D = 120 - q$

$MR = 120 - 2q$

CS = CS

PS = PS

Answer:
PRODUCER SURPLUS = 1360
CONSUMER SURPLUS = 460

$CS = \frac{30 \cdot 30}{2} = \frac{900}{2} = 450$ (CS = 460) R

CS = 460

$PS = 30 \cdot 30 = 900 + \frac{30 \cdot 30}{2}$

$PS = 900 + 460$ (PS = 1360) R

PS = 1360

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Behandla endast en uppgift per sida / *Answer only one question per page*

Nega10/01 2018-10-17 08,15-12,15

Uppgift nr / *Question no:* 1

Poäng / *Points awarded:*

Lärarens anteckning *Examiner's remarks:*

Part Two

Question 1

d) Socially efficient

$MC = P$

$2q = 120 - q$

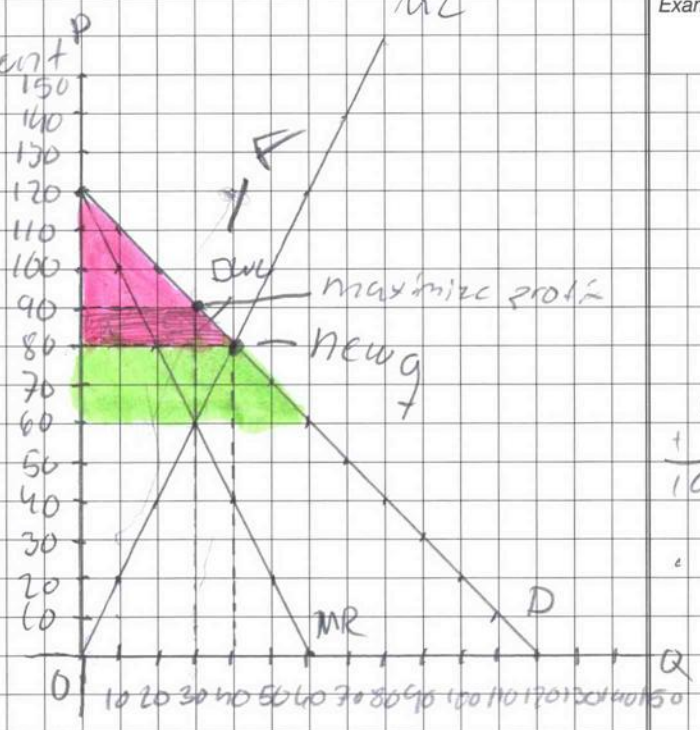
$+q \quad +q$

$3q = 120$

$q = 40$

$P = 120 - 40$

$P = 80$



$PS = 800 + 200$

$PS = 1000$

$CS = \frac{40 \cdot 40}{2}$

$CS = 800$

$DWL = \frac{10 \cdot 30}{2} + \frac{10 \cdot 10}{2}$

$DWL = 300 + 50$

$DWL = 350$

answer quantity to maximize surplus would be 40 R and when $q = 40$ $CS = 800$ instead of 450.

e) i would choose a price ceiling were $P = 80$ or the same as $MC = D$ $MC = P$ to maximize the sociality aspect and the surpluses would be better in customers favor. the total revenue for the firm would actually be higher to

Why would they choose the optimal quantity

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Part two

Question 1

Uppgift nr / *Question no:* 1

Poäng / *Points awarded:*

Lärarens anteckning *Examiner's remarks:*

f) No its not a natural monopol
Because of the shape of the MC-curve and the ME(?)curve. The MC would'nt increase. if it were a natural monopoly

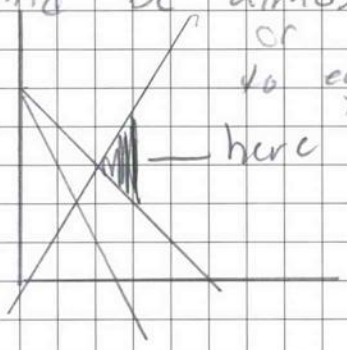
1,5

g) the goverment could implicie a tax on the produce that would get down the price and increase the quantity.

0

h) the dead weight loss would be on the "other side". And the answer in e) would be almost the same a tax or so called a punishment to equal out the external costs.

0



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question 2

a) Micky and b) Low = 1000 high = 1500

Minnie Low = 1000 high = 1500

the best strategi would be if they both produced a Low quality because then they would both get equal and as high as possible. If they were dumb and only make their decision by themselfs they both would choose high quantity because that's the most profit making for both of them separate but together the most load one. But because they are profit maximizers they would choose to both make a high quantity leaving us with a profit on 300 + 300

A dominant strategi is when a producer chooses the alternativ that's best for there own company in this case the one with the highest profit for themself

b) Both of them has a dominant strategy and the result is 300 300.

This is not an answer to the question

0

0

Häftområde

Skriv ej i detta område
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Löpande sidnr
Consecutive no:
4 7

Uppgift nr / *Question no:* 2

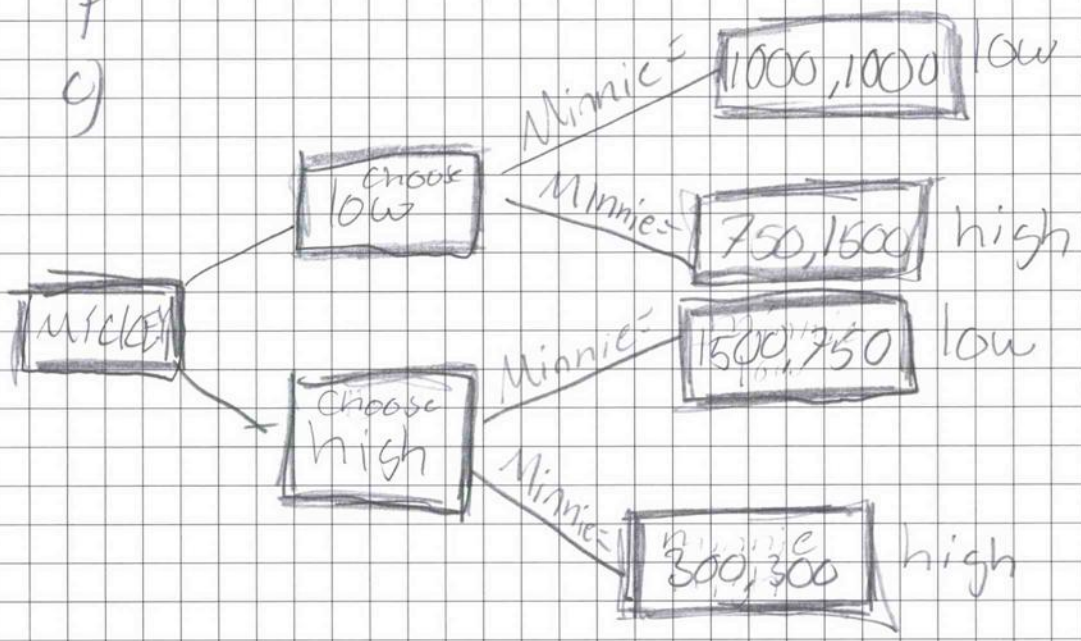
Poäng / *Points awarded:*

Lärarens anteckning
Examiner's remarks:

Nega 01/10 2018-10-17 08,16-12,15

question 2

a)



Mickey's profit is the first one

You start backwards

Mickey would go for making a high quantity because he is a profit maximizer and he would make the most profit by the high one. (1500) then when it's Minnies turn she would also go for the one that gives her the most profit because of profit maximizing. She would have 750 or 300 to choose between and she would take 750.

b) This is an example of an Oligopol because there are only two firms. They make the same choose and they are

Behandla endast en uppgift per sida / *Answer only one question per page*

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Uppgift nr / *Question no:* 3

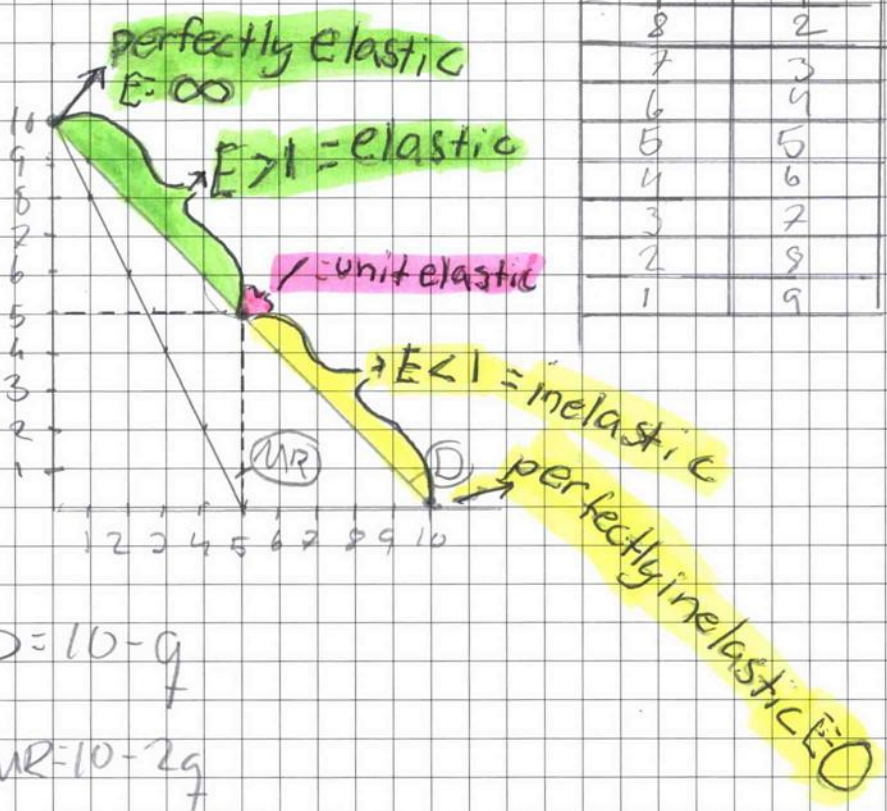
Poäng / *Points awarded:* 1,5

Lärarens anteckning
Examiner's remarks:

Question 3

PRICE	quantity
10	0
9	1
8	2
7	3
6	4
5	5
4	6
3	7
2	8
1	9

a)



$D = 10 - q$

$MR = 10 - 2q$

$TR = P \cdot Q$ at a given point

for an example at $p=5$ $q=5$

$5 \cdot 5 = 25$ $TR = 25$. You could actually on my graph count the numer of boxes within the dotted box to get the totall Revenue. $5 \cdot 5 = 25$. The areea of the box then. Also TR is were quantity 6 meets demand and then look to the right for the price. 2

MR: I presend there is a monopoly structure because i wanted you too see the demand curve because a perfect competion MR curve otherwise = Demand curve.

- the figures needs to show TR as well - that was the main point

1,5

2,5

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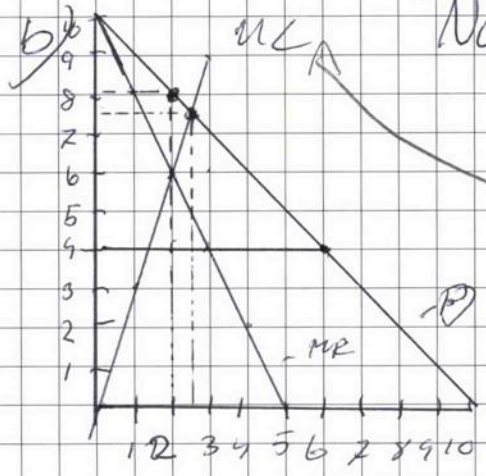
b)



not reasonable

Lets pretend that ($MC = 3q$) ← not reasonable

What question are you answering here?

$D = 10 - q$

$MR = 10 - 2q$

$MC = 3q$

$p = d$

$p = 10 - 2$

$MC = MR$

$3q = 10 - 2q$

$+2q \quad +2q$

$\frac{5q}{5} = \frac{10}{5}$

$q = 2$

$q = 8$

$MC = p$

$3q = 10 - q$

$+q \quad +q$

$4q = 10$

$q = 2{,}5$

$p = 10 - 2{,}5$

$p = 7{,}5$

profit max

the customers will only pay 7,5 which makes the price under MC and it would be better to not make anything however we have already got the possibilities and one could argue if MC should just tell what he got to cover as much of the loss as possible.

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Consecutive no:
9/10

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Uppgift nr / *Question no:* 4

Poäng / *Points awarded:* 3p

Lärarens anteckning
Examiner's remarks:

question 4

a) 250 kr = P W = 500

$MP_L = 10 - 0,5L$

we need to know the MRP to answer the question and to get the MRP we need to take the Price (250) times the marginal product of labor - MP_L $(10 - 0,5L)$ So: $2500 - 125L = MRP$

Räknevel med

$250 \cdot 10 - 0,5L = 2600 - 125L$

~~$10 - 0,5L \cdot 10 = 100 - 5L$~~

~~then to find how many we can employ we take the market wage (500) equals the MRP we just got~~

~~$500 = 100 - 5L$~~
~~$-100 \quad -100$~~
~~$+5L \quad +5L$~~

~~$5L + 500 = 100$~~

~~$400 = -5L$~~
~~$5 \quad -80$~~

~~you can't hire minus 80 people~~

Next step is to see how many L/workers we can hire. that ecuation is MRP = W So:

$2500 - 125L = 500$

$+125L \quad +125L$

$2600 = 500 + 125L$
$-500 \quad -500$

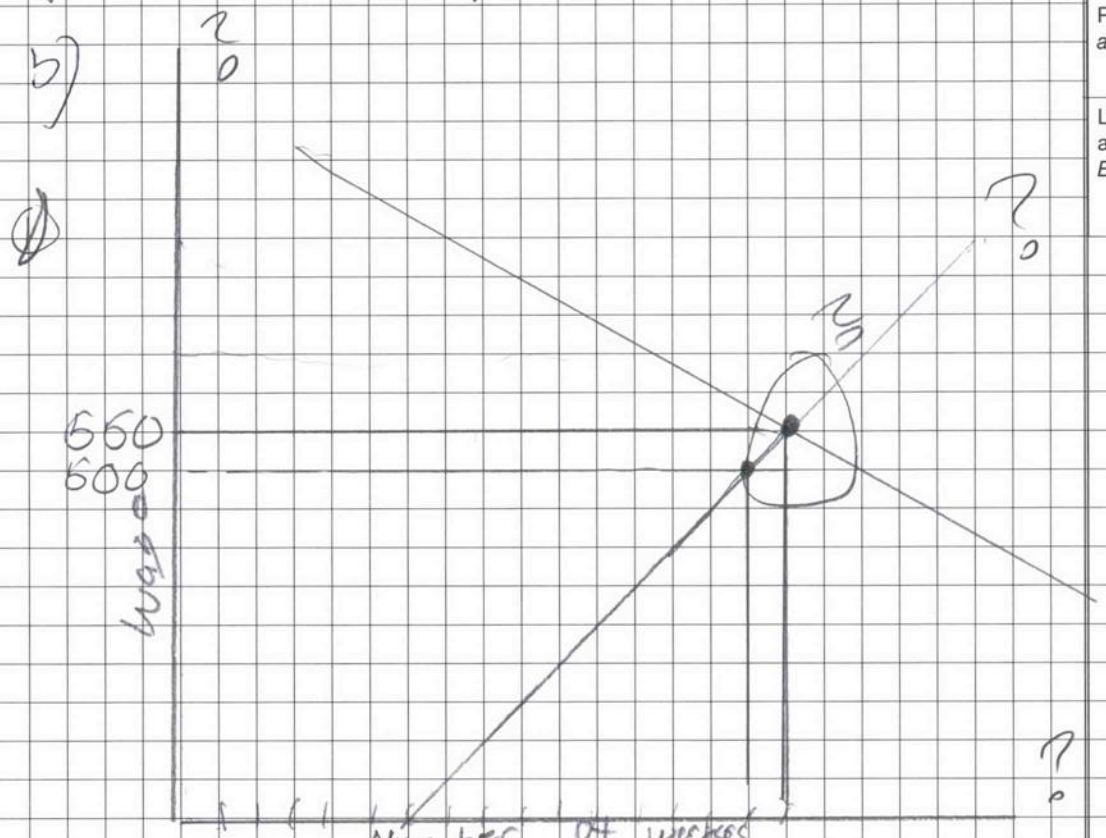
$2000 = 125L \quad L = 16$
125

answer: then can employ L=16 per hour.

3/

question 4 Nega 01/10 2018-10-17 08,15-12,15

b)



workers productivity tend to increase when there's a change in the wage, higher wage will give a higher productivity until a certain point when the worker gets so much money that he/she wants to spend them instead. F

ii) to see what happens whe a minimum wage is applied is easy. you just take minimum wage 550 = the MRP so

550 = 2500 − 125L : answer.
+125L +125L

125L + 550 = 2500
−550 −550

125L = 1950
125

L = 15,6 absolute numbers 15

with the minimum wage we can "only" hire 16 instead of 16 as before

In the figure? 01?

Häftområde

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Nega 10-0005-BTL

Löpande sidnr
Consecutive no:
12

Uppgift nr /
Question no:
4

Poäng / *Points awarded:*

Lärarens anteckning
Examiner's remarks:

Nega 10/01 - 2018-10-17 08,15 - 12,15
PART Two

question 4

b/

iii) When the price of the good increases we will need to re-calculate the MRP.

You were asked to how what happens the risk free figure

-2