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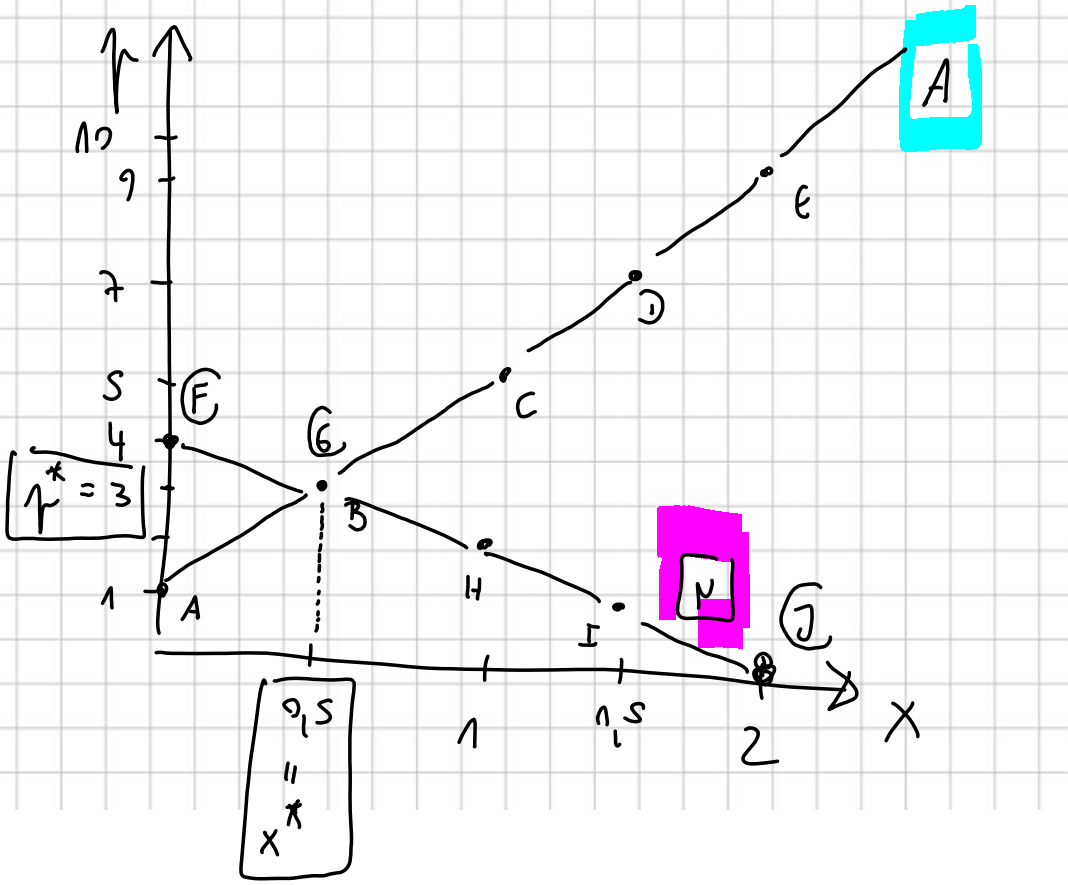
$$p = 1 + 4 \cdot x^{A}$$

$$p = 4 - 2 \cdot x^{N}$$

x^A	0	0,5	1	1,5	2
p	1 (A)	3 (B)	5 (C)	7 (D)	9 (E)

x^N	0	0,5	1	1,5	2
p	4 (F)	3 (G)	2 (H)	1 (I)	0 (J)



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$$A = N \Leftrightarrow 1 + 4 \cdot x = 4 - 2 \cdot x \quad | + 2x$$

$$\Leftrightarrow 1 + 4 \cdot x + 2x = 4 \underbrace{- 2x + 2x}_{0}$$

$$\Leftrightarrow 1 + 6x = 4 \quad | - 1$$

$$\Leftrightarrow 1 + 6x - 1 = 4 - 1$$

$$\Leftrightarrow 1 - 1 + 6x = 3 \Leftrightarrow 6x = 3 \quad | : 6 \Leftrightarrow \boxed{x = 0{,}5}$$

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$$r = 1 + 4 \cdot x = 1 + 4 \cdot 0{,}5 = 1 + 2 = 3$$

$$r = 4 - 2 \cdot x = 4 - 2 \cdot 0{,}5 = 4 - 1 = \boxed{3 = r^*}$$

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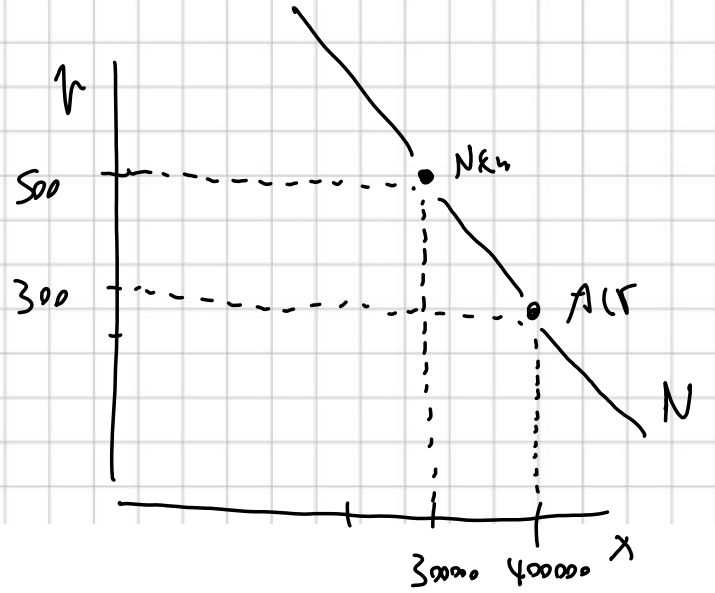
c) iv)

	r	x
2014	300	400.000
2015	500	300.000



c)

$$\text{PREISELAST.} = \frac{\text{REL. MENGENÄNDERUNG}}{\text{REL. PREIS} \uparrow}$$

$$= \frac{\frac{x^{NEU} - x^{ALT}}{x^{ALT}}}{\frac{p^{NEU} - p^{ALT}}{p^{ALT}}}$$

$$= \frac{\frac{300.000 - 400.000}{400.000}}{\frac{500 - 300}{300}}$$

$$= \frac{-25\,\%}{+66{,}67\,\%} = -0{,}375$$

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↑ um 1 % → X ↓ um 0,375 %

↑ um 10 % → X ↓ um 3,75 %

↓ um 20 % → X ↑ um 7,5 %

3

b) ↑ um 4 % (a) — PREISELAST. = −3 → X ↓ um 12 % (a · PR.ELAST. = 4 · 3)

c) ↓ um 3 % — P.ELAST. = −5 → X ↑ um 15 %

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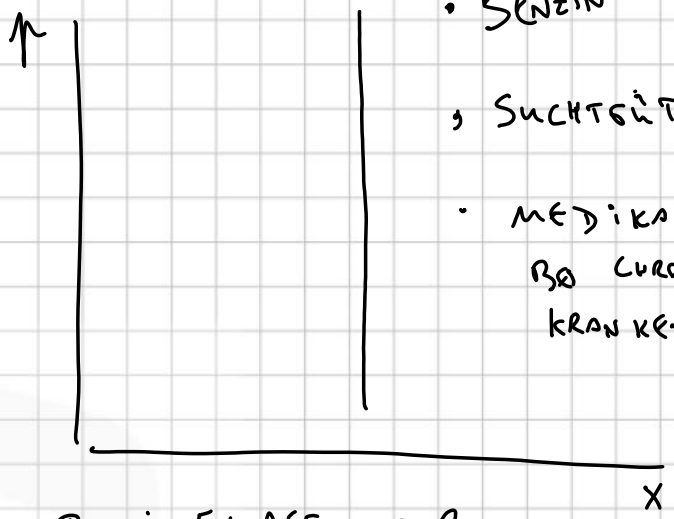
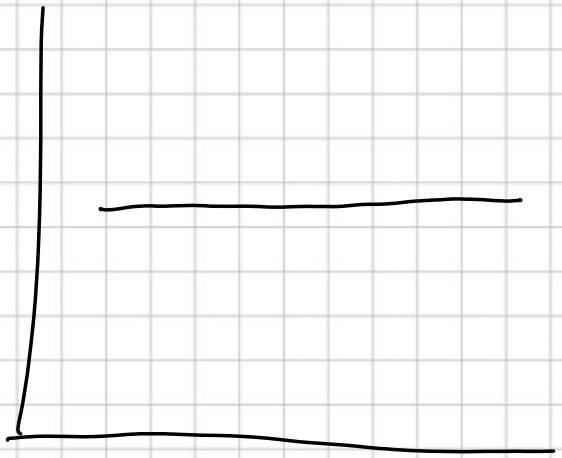


- BENZIN
- SUCHTGÜTER
- MEDIKAMENTE BEI CHRONISCH KRANKEN MENSCHEN

- PREISELAST. = 0
- GUT VOLLK. PREISUNELASTISCH



- PREISELAST. = $-\infty$
- GUT VOLLK. PREISELASTISCH