

a)

$\underbrace{N}_{X=0} \Rightarrow r=$

$\underbrace{N}_{r=4-2 \cdot X}$

$0 = 4 - 2 \cdot X \Leftrightarrow X = 2$

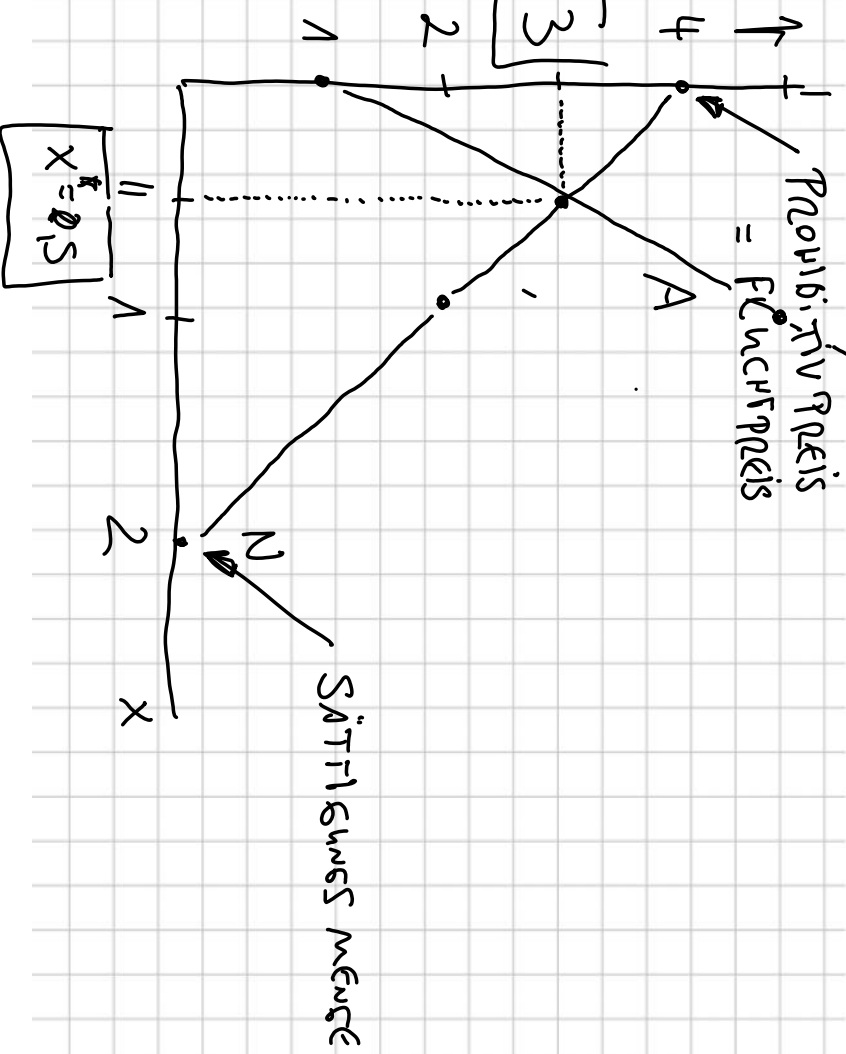
$X = 1 \Rightarrow r = 4 - 2 \cdot 1 = 2$

$r^* = 3$

$\underbrace{A}_{X=0} \Rightarrow r=1$

$X = 1 \Rightarrow r = 5$

$X = 0,5 \Rightarrow r = 3$



$$\sqrt{1} \quad | \quad 1 = 1 \quad \Leftrightarrow \quad 1 + 4 \cdot x = 4 - 2 \cdot x \quad | + 2x$$

$$\Leftrightarrow 1 + 4x + 2x = 4 - 2x + 2x$$

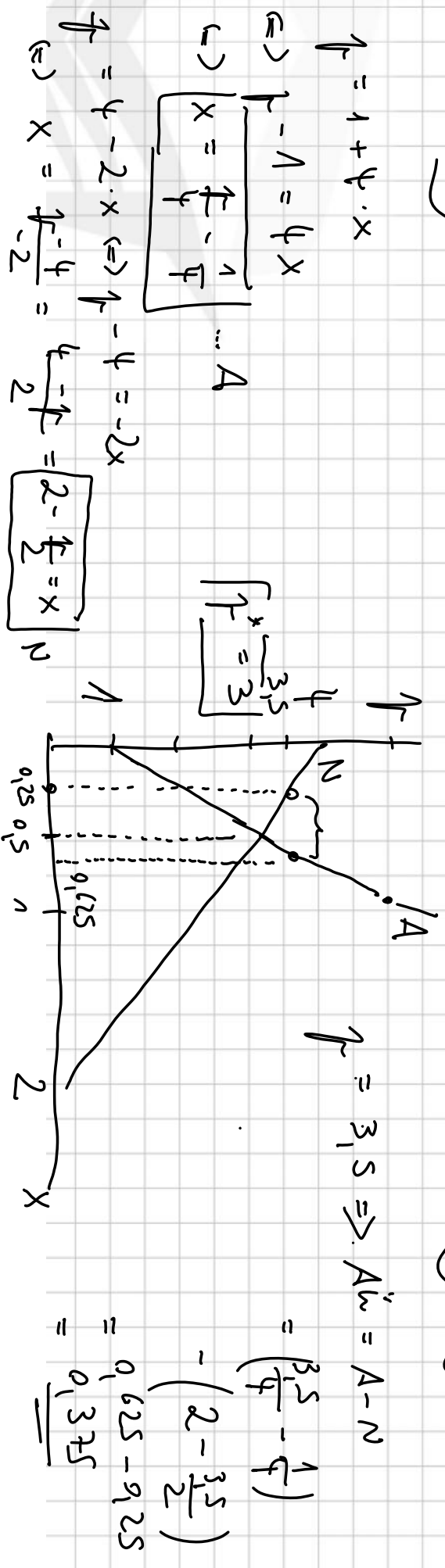
$$\Leftrightarrow 1 + 6x = 4 \quad | -1$$

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

$$\Leftrightarrow 1 - 1 + 6x = 3$$

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

$$\begin{aligned} r &= 1 + 4 \cdot 0,5 = 1 + 2 = 3 = 3 \\ r &= 4 - 2 \cdot 0,5 = 4 - 1 = 3 \end{aligned}$$



ENTGEGENGERICHT.

ZSK.

ZW. $\uparrow$ UND $\times$

Dipl.-Math. Dipl.-Kfm. Daniel Lambert

<https://www.bibukurse.de>

1.1.3

h)

$$n = -3 \Rightarrow \left[\uparrow \uparrow \text{um } 14\% \rightarrow x \neq \text{um } 4 \cdot 3 = 12\% \right]$$

!

es A

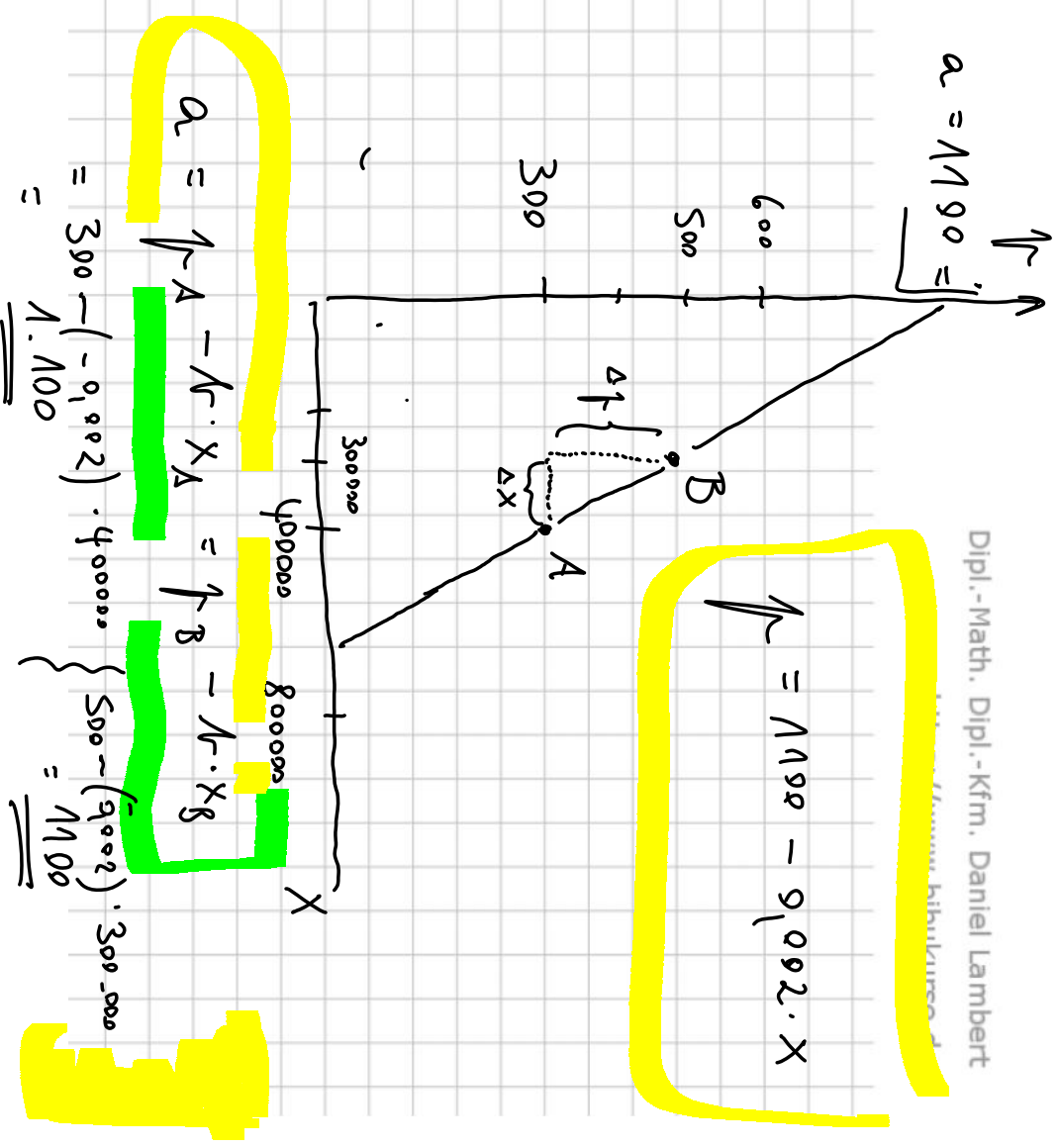
c)

$$n = -5 \Rightarrow \left[\uparrow \uparrow \text{um } 3\% \rightarrow x \uparrow \text{um } 5 \cdot 3 = 15\% \right]$$

a)

Def., Bedeutung siehe rote Fäden

$$\begin{aligned}
 & \text{1.1.2} \quad \boxed{r = a + r \cdot X} \\
 & r = \frac{\Delta}{\Delta X} \\
 & = \frac{r_B - r_A}{X_B - X_A} \\
 & = \frac{500 - 300}{300000 - 400000} \\
 & = \frac{200}{-100000} = -0,002
 \end{aligned}$$



$$\eta = \frac{dx}{dy} \cdot \frac{1}{x}$$

$$= \frac{\text{REC. MENGENÄND.}}{\text{REC. PREIS} - " -}$$

$$\eta = \frac{\frac{x_2 - x_1}{x_1}}{\frac{p_2 - p_1}{p_1}}$$

$$= \frac{\frac{x_{2015} - x_{2014}}{x_{2014}}}{\frac{p_{2015} - p_{2014}}{p_{2014}}}$$

$$\begin{aligned} & \frac{300000 - 400000}{400000} \\ & \frac{500 - 300}{300} \end{aligned}$$

ASSOC. MENGEÄNDERUNG

$$\frac{-100000}{400000} = -25\%$$

ASSOC. PREISÄNDERUNG

$$\frac{200}{300} = 66,67\%$$

REC. PREISÄNDERUNG

$$= 37,5\%$$

PREISELASC. ... -37,5%.

$$\uparrow \text{ um } 5\% \rightarrow X \text{ \& um } 5 \cdot 0,375 = 1,875\%$$

$$\begin{aligned} & \uparrow 1 = 300 \\ & \uparrow 2 = 315 \end{aligned} \Rightarrow X_1 = 400.000$$

$$\Rightarrow X_2 = 550.000 - 500 \cdot 315 = 392.500$$

$$= \frac{392500 - 400000}{400000}$$

$$r = 1100 - 0,992 \cdot X$$

$$\Leftrightarrow r - 1100 = -0,992 \cdot X$$

$$\Leftrightarrow \frac{r - 1100}{-0,992} = X$$

$$\Leftrightarrow \boxed{X = \frac{559,000 - 500 \cdot r}{-1}}$$