

$$A = \sqrt{x_1} \cdot \sqrt{x_2}$$

$$p_1 = 4$$

$$p_2 = 8$$

$$B = 1.000 \text{ €}$$

$$B = m = p_1 \cdot x_1 + p_2 \cdot x_2$$

$$1000 = 4x_1 + 8x_2$$

$$\frac{\frac{2M}{7x_1}}{\frac{7M}{7x_2}} = \frac{7x_1}{7x_2}$$

$$\Leftrightarrow \frac{\frac{1}{2} \cdot x_1 \cdot x_2}{\frac{1}{2} \cdot x_1 \cdot x_2} = \frac{4}{8}$$

$$\Leftrightarrow x_1^{-1} \cdot x_2^{-1} = \frac{1}{2}$$

$$\Leftrightarrow x_1^{-1} \cdot x_2^{-1} = \frac{1}{2} \Leftrightarrow x_2 = \frac{1}{2} \cdot x_1$$

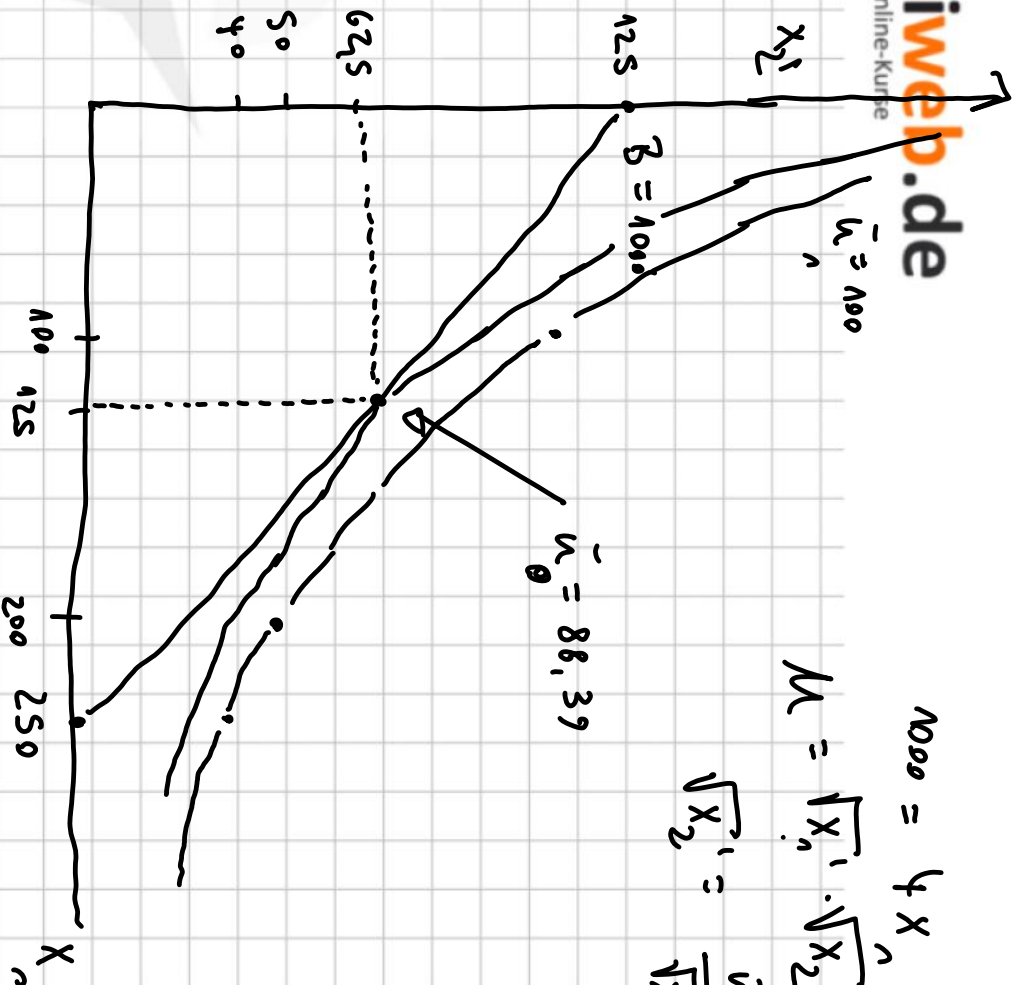
$$\Leftrightarrow x_1 = 2x_2$$

$$\Leftrightarrow 1000 = 4x_1 + 8x_2 = 4 \cdot (2x_2) + 8x_2 = 16x_2$$

$$\Leftrightarrow \boxed{x_2 = 62,5} \quad x_1 = 2 \cdot 62,5 = \boxed{125 = x_1^*}$$

K)

1)  $\mu$

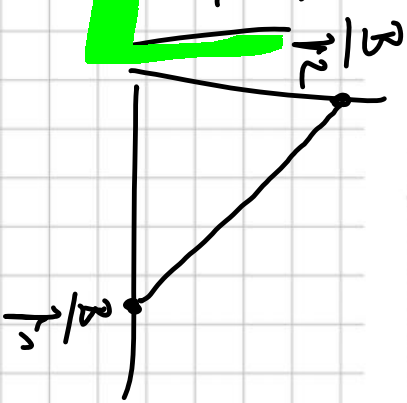


$$1000 = 4x_1 + 8x_2$$

$$\mu = \sqrt{x_1} \cdot \sqrt{x_2}$$

$$\sqrt{x_2} = \frac{\mu}{\sqrt{x_1}} \Rightarrow x_2 = \frac{\mu^2}{x_1}$$

$$x_2 = \frac{\mu^2}{x_1}$$



$$\mu = 100$$

$$\Rightarrow x_2 = \frac{100^2}{x_1} \dots \mu = 100$$

$x_1$	100	200	250
$x_2$	100	50	40

2

$$r = 12 - 6x \Leftrightarrow r - 12 = -6x$$

$$e) \quad x = \frac{r-12}{-6}$$

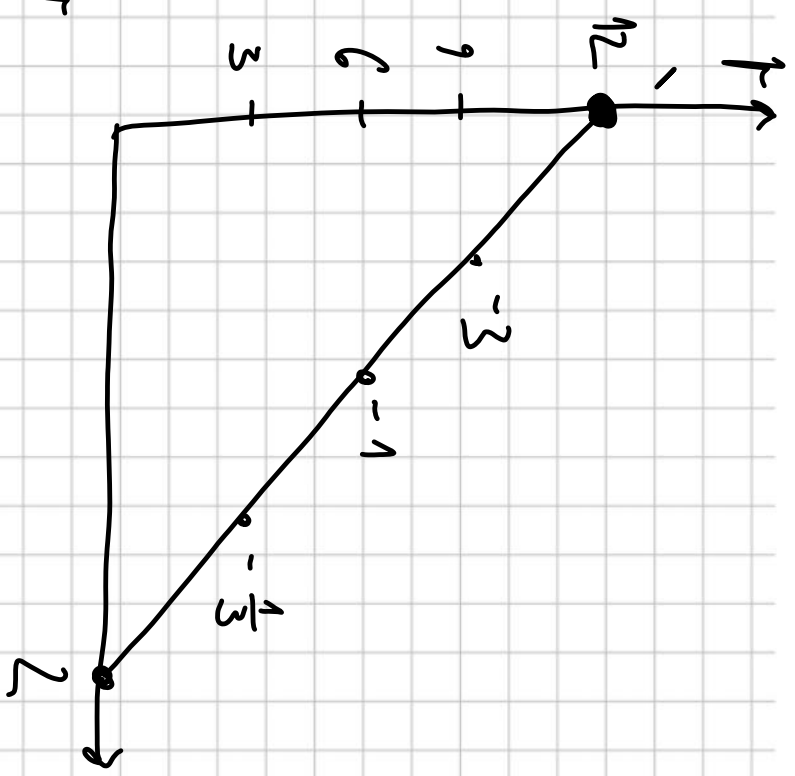
$$x = 2 - \frac{1}{6}r$$

$$Z = \frac{rx}{rp} \cdot \frac{r}{x}$$

$$= -\frac{1}{6} \cdot \frac{r}{2 - \frac{1}{6}r} \cdot r$$

$$= -\frac{1}{6} \cdot \frac{r}{\frac{r-12}{-6}} = -\frac{1}{6} \cdot \frac{-6}{r-12} \cdot r$$

$$= + \frac{r}{r-12}$$



4

$$f = 8 - 2x$$

$$K = 4x + 1$$

$$GE = GK$$

$$(8 - 2x) \cdot x = 4x$$

$$\Leftrightarrow (8x - 2x^2)' = 4$$

$$\Leftrightarrow 8 - 4x = 4$$

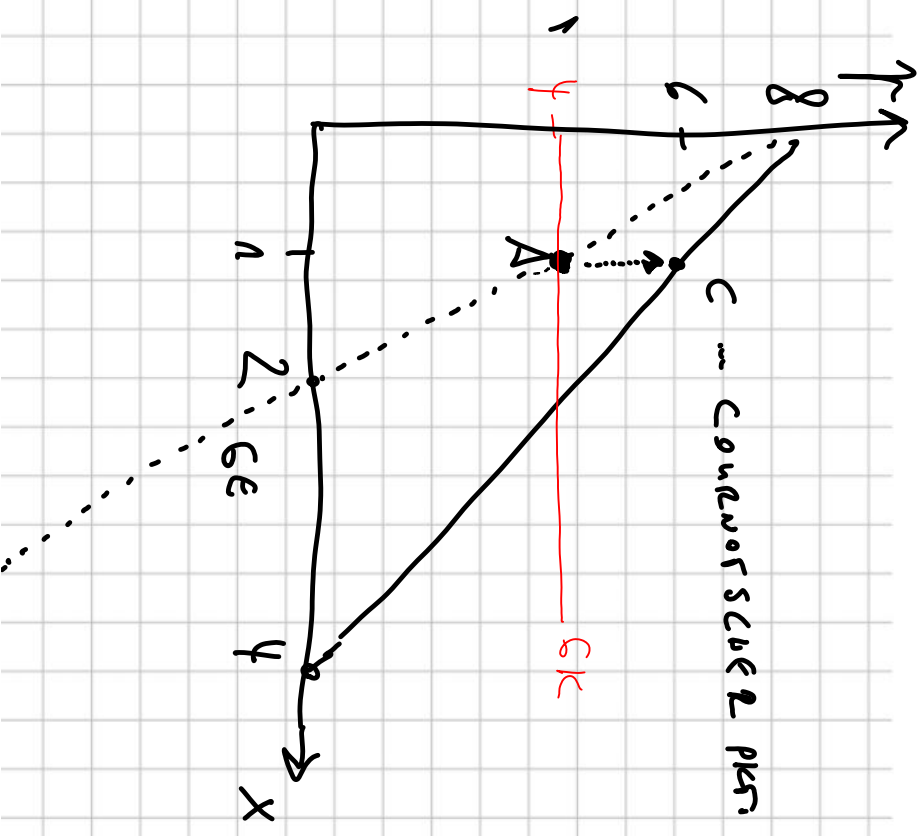
$$\Leftrightarrow 8 - 4 = 4x$$

$$\Leftrightarrow$$

$$\boxed{x = 1}$$

$$\boxed{f = 6}$$

$$\begin{aligned} G_{\text{mix}} &= E - K \\ &= f \cdot x - (4x + 1) \\ &= 6 \cdot 1 - (4 \cdot 1 + 1) \\ &= 6 - 5 = 1 \end{aligned}$$



3 }  $\uparrow r_{n1}$   
 $\rightarrow (B_0 \& B_n)$

$\rightarrow$  PARALLELVENSLINIE VON  $B_n$   
 DURCH PUNKT OPG  $A \dots B_{0n}$

