

1. $\gamma = -(x+2)(x-3)$ ✓

$\gamma = -(x^2 - x - 6) = -x^2 + x + 6$ ✓

$x_5 = \frac{-1}{2(-1)} = +\frac{1}{2}$ ✓ $\gamma_5 = -(\frac{1}{2})^2 + \frac{1}{2} + 6 = 6\frac{1}{4}$ ✓

SPF: $\gamma = -(x - \frac{1}{2})^2 + 6\frac{1}{4}$ ✓

5P

2.1 $90 + 8 \cdot 1,5 = 102$ \$ ✓

2P

$\frac{115 - 102}{23} = 0,565$ \$/Tag ✓

2. $f_1: P_1(0|115); P_2(15|90)$

$m_1 = \frac{115 - 90}{0 - 15} = -\frac{5}{3}$ ✓; $t_1 = 115$ ✓

$\Rightarrow \gamma = -\frac{5}{3}x + 115$ ✓

$f_2: P_1(15|90) \quad m_2 = 1,5$ ✓

$90 = 1,5 \cdot 15 + t \Rightarrow t = 67\frac{1}{2}$ ✓

$\Rightarrow \gamma = 1\frac{1}{2}x + 67\frac{1}{2}$ ✓

$R(t) = \begin{cases} -\frac{5}{3}t + 115 & \text{für } 0 \leq t \leq 15 \\ 1\frac{1}{2}t + 67\frac{1}{2} & \text{für } 15 < t \leq 23 \end{cases}$ ✓

7P

✓ (Form)

2.3 Ablesen zwischen 9.9. und Ende 21.9. ✓

Rechnung

1. $-\frac{5}{3}t + 115 \leq 100$ ✓

$-\frac{5}{3}t \leq -15$

$t \geq 9$ ✓

2. $1\frac{1}{2}t + 67\frac{1}{2} \leq 100$ ✓

$1\frac{1}{2}t \leq 32\frac{1}{2}$

$t \leq 21\frac{2}{3}$ ✓

5P

$\Rightarrow 9 < t < 21\frac{2}{3}$ ✓

(9.9. 0⁰⁰ Uhr - 21.9. 16⁰⁰ Uhr)

$$3.1 \quad -x^2 + 2 = -\frac{1}{2}(x+2)^2 + 4 + 2 \quad \checkmark$$

$$-x^2 + 2 = -\frac{1}{2}(x^2 + 4x + 4) + 4 + 2$$

$$-x^2 + 2 = -\frac{1}{2}x^2 - 2x + 4 \quad \checkmark$$

$$0 = \frac{1}{2}x^2 - 2x + 4 - 2 \quad \checkmark$$

$$D = 4 - 4 \cdot \frac{1}{2}(4-2) = 8 - 2 \cdot 4 \quad \checkmark$$

$$D = 0 \quad \checkmark$$

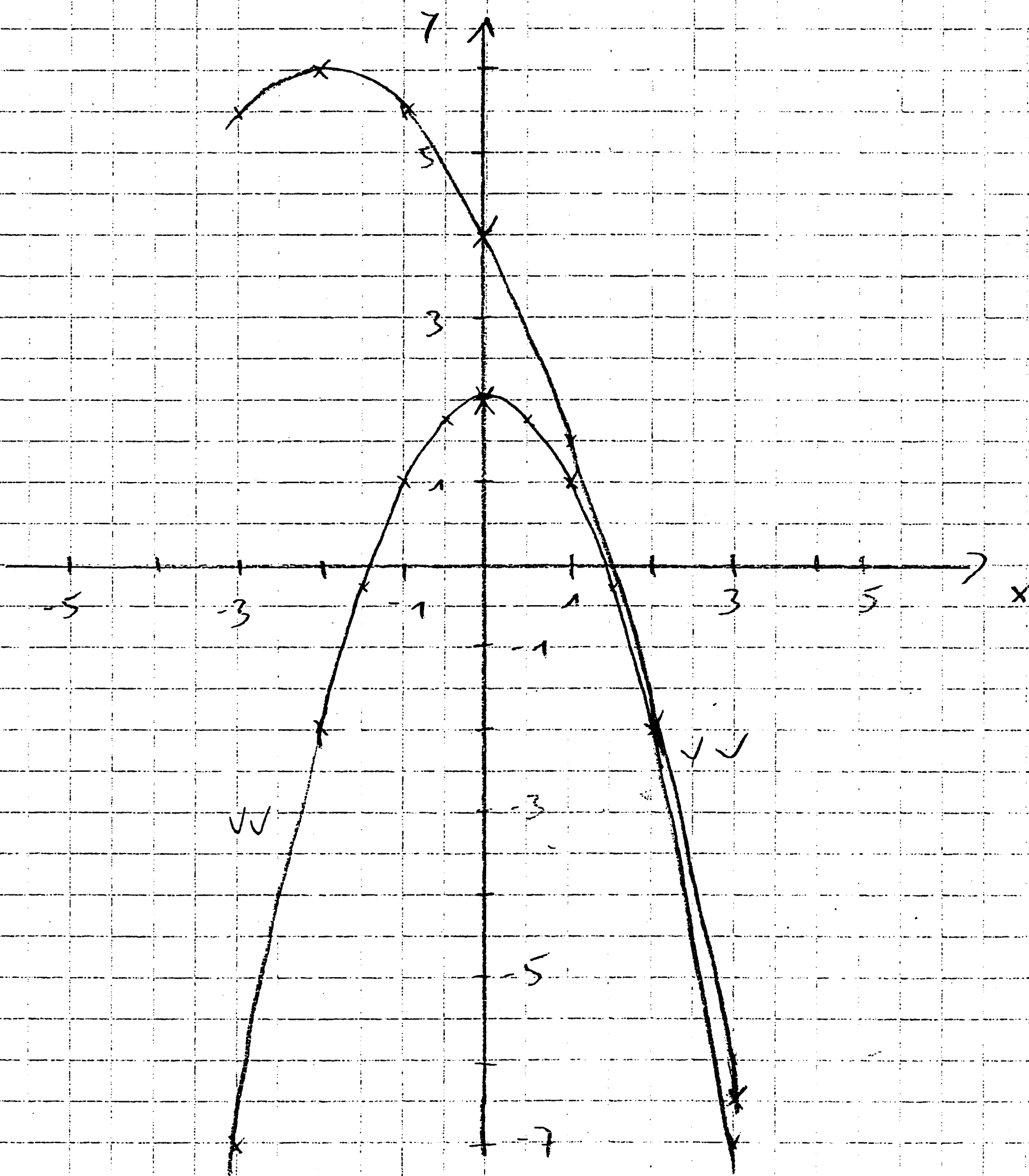
$$\Rightarrow 8 - 2k = 0 \quad \rightarrow \quad k = 4 \quad \checkmark$$

SP

$$3.2 \quad p(x) = -x^2 + 2 \quad \text{SP}(0|2); \alpha = -1$$

$$g_u(x) = -\frac{1}{2}(x+2)^2 + 6 \quad \text{SP}(-2|6); \alpha = -\frac{1}{2}$$

SP



Σ 29 P