

1. a.)  $y = x + 30$  1/2

b.)  $y = 30 \cdot x$  1/2

(2) c.)  $y = \frac{30}{x}$  1/2

d.)  $y = x - 30$  1/2

2.  $y_1 = 12 \cdot (-12) + 12 = -144 + 12 = \underline{\underline{-132}}$  1/2

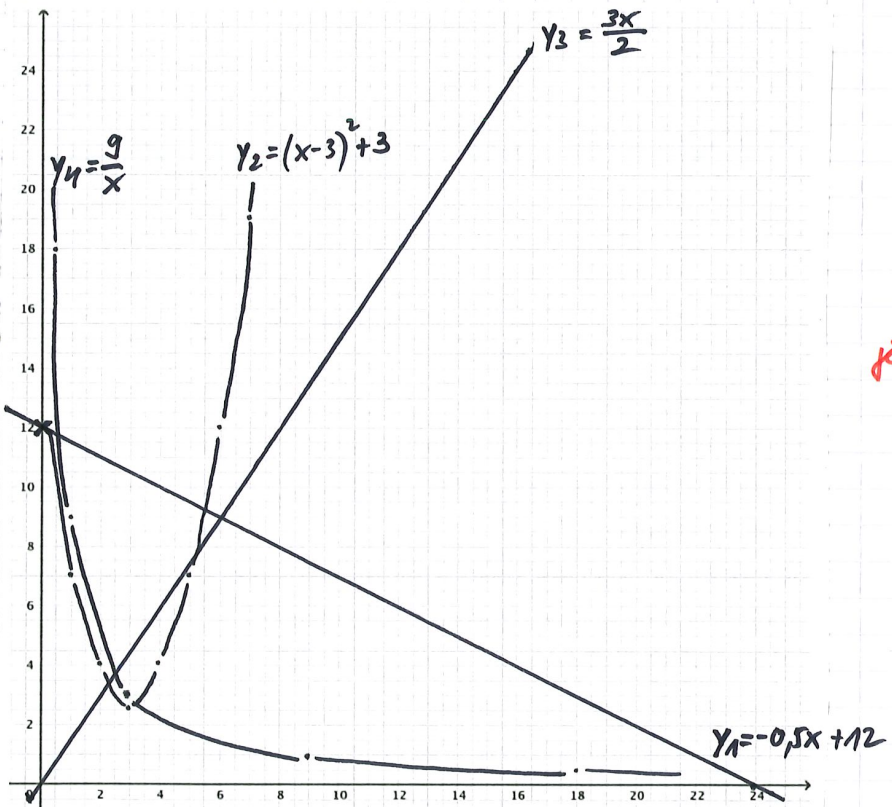
$$y_2 = \frac{9 \cdot (-12) - 15}{6} = \frac{-108 - 15}{6} = \frac{-123}{6} = \underline{\underline{-20,5}}$$
 1/2

(2)  $y_3 = \frac{2 \cdot (-12)^2 - 2 \cdot (-12)}{3} = \frac{288 + 24}{3} = \frac{312}{3} = \underline{\underline{104}}$  1/2

$$y_4 = 3 \cdot (6 - 4 \cdot (-12)) = 3 \cdot (6 + 48) = 3 \cdot 54 = \underline{\underline{162}}$$
 1/2

$$y_5 = (8 - (-12)) \cdot (-12 - 8) = 20 \cdot (-20) = \underline{\underline{-400}}$$
 1/2

3.



$$\begin{array}{rcl}
 \underline{4.} & 20 \cdot 18,5 \text{ Fr.} + 300 \text{ Fr.} & = \underline{670 \text{ Fr.}} \\
 & 1'500 \text{ Fr.} + 5 \cdot 20 \cdot 1,5 \text{ Fr.} & = \underline{1'650 \text{ Fr.}} \\
 & 45 \text{ Fr.} + 20 \cdot 1,2 \text{ Fr.} & = \underline{69 \text{ Fr.}} \\
 & 20 \cdot 5,5 \text{ Fr.} & = \underline{110 \text{ Fr.}} \\
 & 10 \cdot 20 \text{ Fr.} & = \underline{200 \text{ Fr.}} \\
 & 100 \text{ Fr.} + 20 \cdot 5,7 \text{ Fr.} & = \underline{214 \text{ Fr.}}
 \end{array}$$

(2)

$$\begin{aligned}
 &\Rightarrow 670 \text{ Fr.} + 1'650 \text{ Fr.} + 69 \text{ Fr.} + 110 \text{ Fr.} + 200 \text{ Fr.} + 214 \text{ Fr.} \\
 &= \underline{\underline{2'913 \text{ Fr.}}} \quad 2
 \end{aligned}$$

(2)

$$\begin{array}{ll}
 \underline{5.} & 1: \quad y = x^2 + 1 \quad \text{||} \\
 & 2: \quad y = -x + 5 \quad \text{||} \\
 & 3: \quad y = \frac{25}{x} \quad \text{||} \\
 & 4: \quad y = x - 8 \quad \text{||}
 \end{array}$$

$$\begin{array}{rcl}
 \underline{b.} & a.) & 250 + 150 + 50 + 30 = 30 \cdot 14 + 30 \cdot y \\
 & & 480 = 420 + 30y \quad | -420 \\
 & & 60 = 30y \quad | :30 \\
 & & \underline{2 = y} \\
 & \Rightarrow & \underline{\underline{\text{Eintritt: } 2 \text{ Fr.}}} \quad 1
 \end{array}$$

(3)

$$\begin{array}{rcl}
 b.) & & 450 + x = 14 \cdot x + 8 \cdot x \\
 & & 450 + x = 22x \quad | -x \\
 & & 450 = 21x \quad | :21 \\
 & & \underline{21 \hat{=} x} \\
 & \Rightarrow & \underline{\underline{\text{Mindestens } 22 \text{ Personen.}}} \quad 1
 \end{array}$$

$$\begin{array}{rcl}
 a.) & & 450 + x = 14x \quad | -x \\
 & & 450 = 13x \quad | :13 \\
 & & \underline{35 \hat{=} x} \\
 & \Rightarrow & \underline{\underline{\text{Mindestens } 37 \text{ Personen.}}} \quad 1
 \end{array}$$