

$$A1.1 \quad m = \frac{7-1}{-1-7} = \frac{6}{-8} = -\frac{3}{4} \checkmark$$

$$y = -\frac{3}{4}x + t \quad \text{A eins:} \quad 7 = -\frac{3}{4}(-1) + t \checkmark \Rightarrow t = 6\frac{1}{4} \checkmark$$

$$y = -\frac{3}{4}x + 6\frac{1}{4} \checkmark$$

4

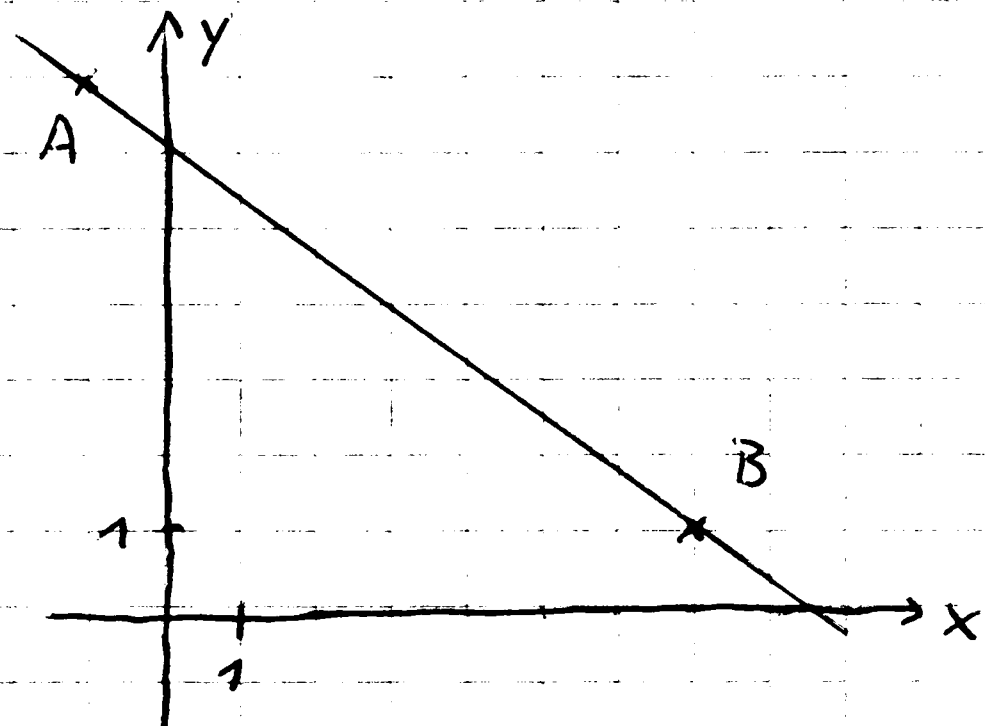
2

1.2

1.3

5

(gerundet -1)



$$0 = -\frac{3}{4}x + 6\frac{1}{4} \Rightarrow$$

$$\frac{3}{4}x = 6\frac{1}{4} = \frac{25}{4} \checkmark \Rightarrow x = \frac{25}{3} = 8\frac{1}{3} \checkmark$$

$$A = \frac{1}{2} \cdot 8\frac{1}{3} \cdot 6\frac{1}{4} = \frac{625}{24} = 26\frac{1}{24} \checkmark$$

2.

$$\frac{x-5}{3(x-2)} - \frac{2x+1}{x-2} + \frac{2x+6}{2(x-2)} = 0 \quad | \cdot 6(x-2)$$

$$2(x-5) - 6(2x+1) + 3(2x+6) = 0 \quad \checkmark \checkmark \checkmark \checkmark$$

$$D = \mathbb{R} \setminus \{2\} \checkmark$$

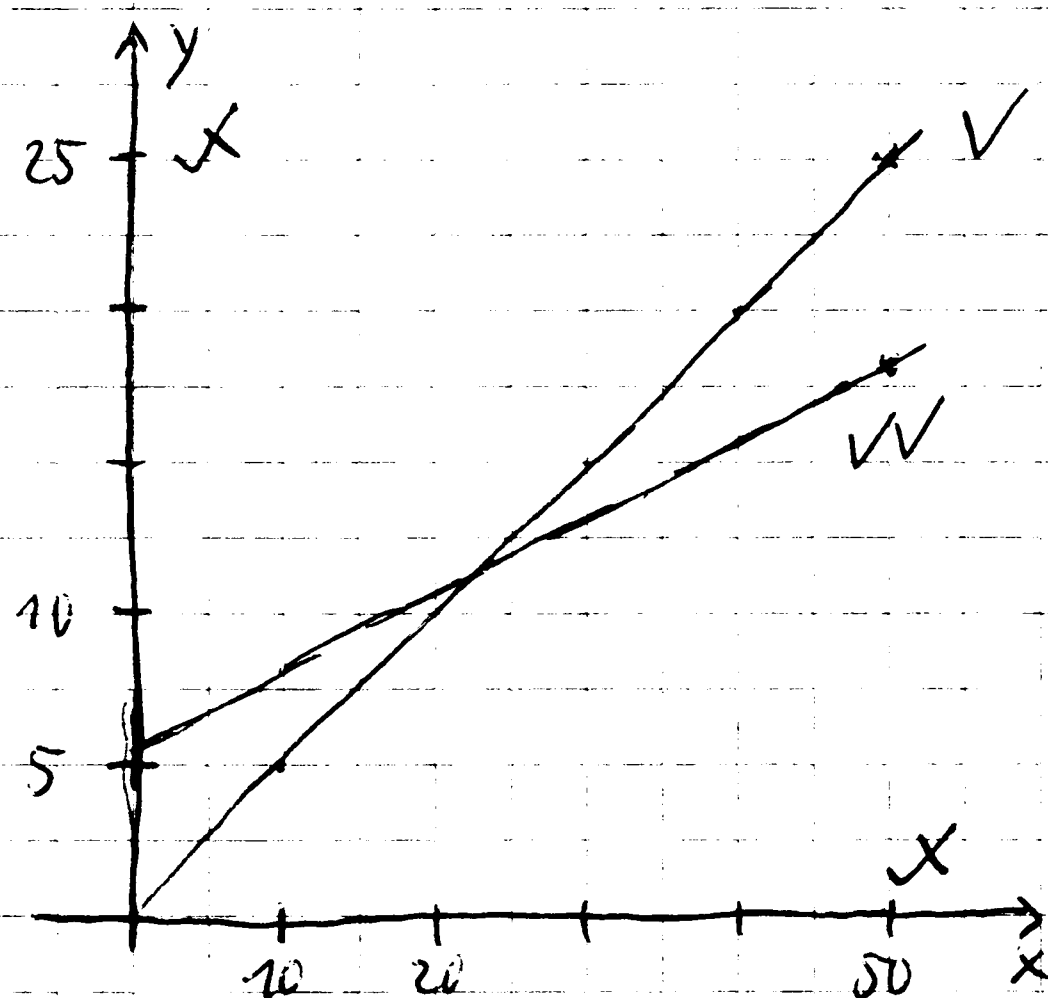
$$-4x + 2 = 0 \Rightarrow x = 0,5 \checkmark$$

4

3.1

3

3.2



$$y = 0,5x \checkmark$$

$$y = 0,25x + 5,5 \quad \checkmark \checkmark$$

$$3.3 \quad 0,25x + 5,5 = 0,5x - 5 \quad \checkmark \quad [\text{oder } 0,5x - (0,25x + 5,5) = 5]$$

$$10,5 = 0,25x \Rightarrow x = 42 \text{ Stück } \checkmark$$

4

$$y = 0,5 \cdot 42 - 5 = 16 \text{ Dollar } \checkmark$$

$$4. \quad p^2 = a^2 - h^2 \checkmark = 56,25 - 36 = 20,25 \checkmark \quad | \sqrt{\quad} \quad p = 4,5 \checkmark$$

$$h^2 = p \cdot q \checkmark$$

$$\text{oder } a^2 = p \cdot c$$

$$36 = 4,5 \cdot q \checkmark \Rightarrow q = 8 \checkmark$$

$$56,25 = 4,5 \cdot c \Rightarrow c = 12,5$$

$$b^2 = q^2 + h^2 \checkmark = 64 + 36 = 100$$

$$b^2 = c^2 - a^2 = 156,25 - 56,25 = 100$$

$$\Rightarrow b = 10 \checkmark$$

$$\Rightarrow b = 10$$

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