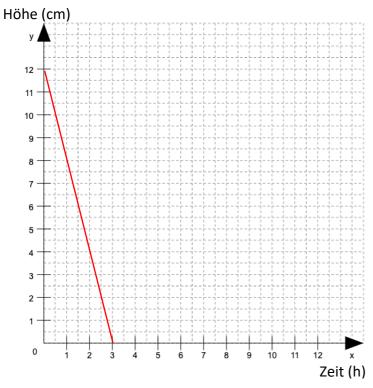
## Lösungen Lineare Funktionen II





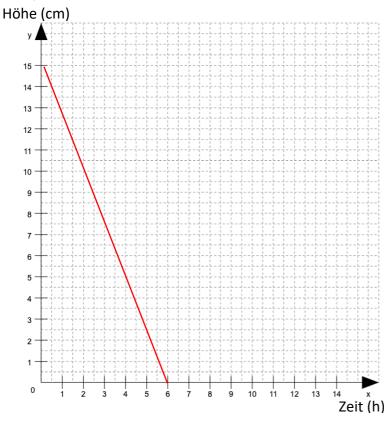
Zeit (h)	0	1	2	3
Höhe (cm)	12	8	4	0

Steigung 
$$a = \frac{y_2 - y_1}{x_2 - x_1} = \frac{8 - 12}{1 - 0} = \frac{-4}{1} = -4$$

$$b = 12$$

$$\rightarrow$$
 f(x) = -4x + 12

## 2)



Steigung 
$$a = \frac{y_2 - y_1}{x_2 - x_1} = \frac{0 - 15}{6 - 0} = \frac{-15}{6} = -2,5$$

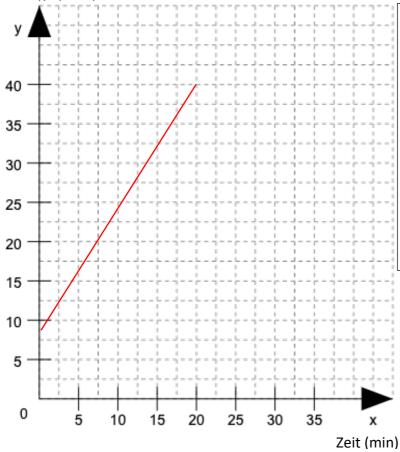
$$b = 15$$

→ 
$$f(x) = -2.5x + 15$$

3)

Zeit (min)	0	5	10	15	20
Füllmenge (I)	8	16	24	32	40

Füllmenge (Liter)



Steigung  $a = \frac{y_2 - y_1}{x_2 - x_1} = \frac{40 - 8}{20 - 0} = \frac{32}{20} = 1,6$  pro Minute fließen 1,6l in das Aquarium.

$$b = 8$$

→ 
$$f(x) = 1.6x + 8$$