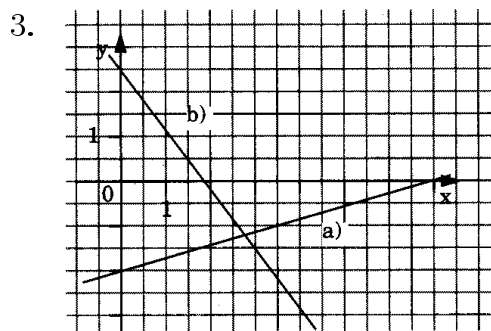


Lineare (oder affine) Funktionen Lösungen

1. a) $y = -0.55x$ b) $y = \frac{9}{5}x$

2. a) $m = \frac{1}{5}$ b) $m = -0.75$



4. a) $y = \frac{3}{4}x + \frac{1}{4}$ b) $y = -\frac{5}{12}x + \frac{2}{3}$

5. a) $y = -x + 2$ b) $y = -0.6x + 5.5$

6. a) nein b) ja

7. a) $S(-\frac{2}{9}/\frac{22}{9})$ b) $S(3/1)$

8. a) $y = -\frac{2}{5}x + \frac{1}{5}$ b) $y = 0.7x - 4.1$

9. a) Trommel 1 kg, Kabel $170 \frac{g}{m}$ b) $f: x \mapsto y = f(x) = 0.17x + 1$

10. Ansatz für $g: y = mx + a_2$
 $S(a_1/0) \in g: 0 = ma_1 + a_2 \quad | -a_2, : a_1$
 $m = -\frac{a_2}{a_1}$
 $g: y = -\frac{a_2}{a_1}x + a_2 \quad | : a_2, +\frac{x}{a_1}$