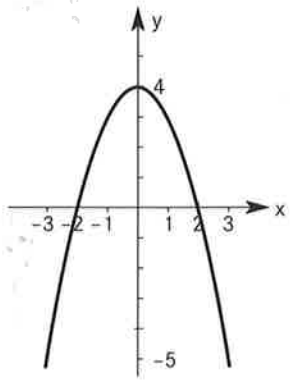
Lösungen Test P1

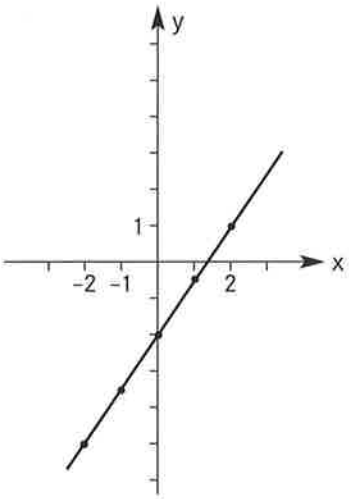
1



2

x	-2	-1	0	1	2
y	-5	-3.5	-2	-0.5	1

Nullstelle $x = \frac{4}{3}$
(Lösung der Gleichung $\frac{3}{2}x - 2 = 0$)

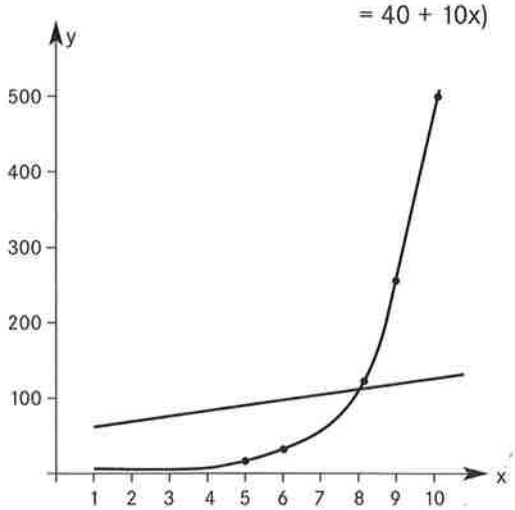


3

	Tag x	1	2	3	4	5	6	7	8	9	10
Angebot:	Lohn y	1	2	4	8	16	32	64	128	256	512
Angebot2:	Lohn y	50	60	70	80	90	100	110	120	130	140

$(y = 2^{x-1})$

$(y = 50 + 10(x - 1)$
$= 40 + 10x)$



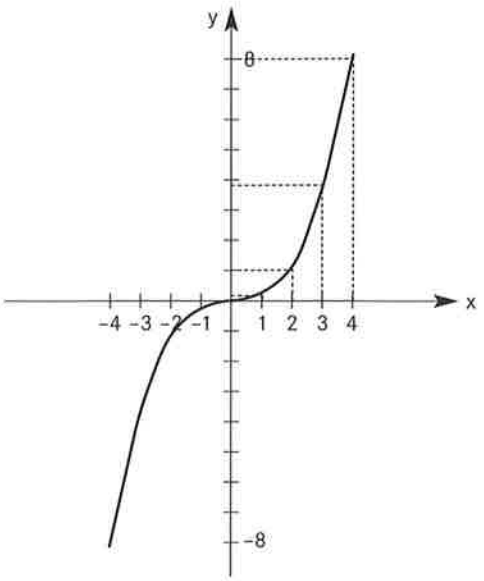
Angebot 1 ist zu bevorzugen (1023 Fr.) gegenüber Angebot 2 (950 Fr.)

Lösungen Test P2

1 **a)**

x	−4	−3	−2	−1	0	1	2	3	4
y	−8	-3.375	−1	$-\frac{1}{8}$	0	$\frac{1}{8}$	1	-3.375	8

b)

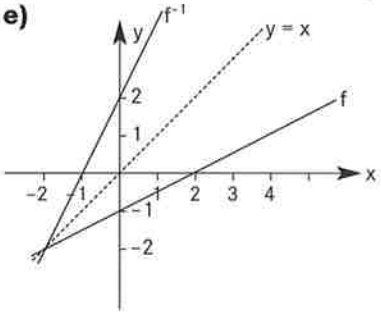


c) $D_f = W_f = \mathbb{R}$

2 **a)** f(10) = 4, f(−6) = −4 **b)** f(−20) = −11

c) x = 2 **d)** $f^{-1}(x) = 2x + 2$

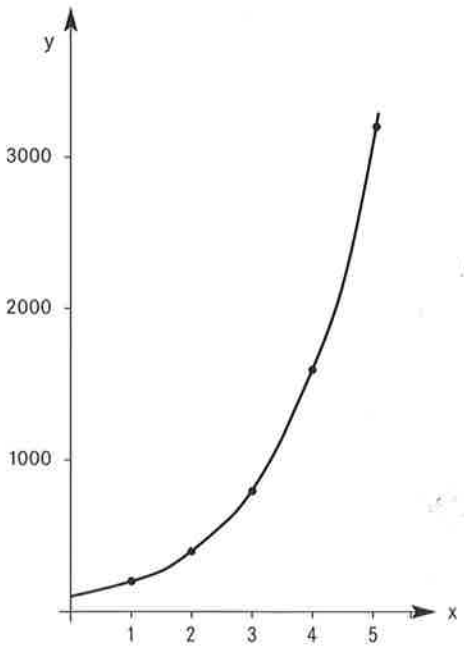
e)



3 A(0/1), B(−1/0), C(3/2), D(9999/100)

$D_p = \{x \in \mathbb{R} / x \geq -1\}$

4 **a)**



b) $f: x \rightarrow 100 \cdot 2^x$