

Ejaka Morgen :-)

2015 P2

a) $f(0) = 0 \Rightarrow ii \Rightarrow b = 0$

$f'(0) = 1 \Rightarrow i = f'(x) \rightarrow f'(0) = 1 \Rightarrow m = 1$

$f'(0) = b$

22.2.20

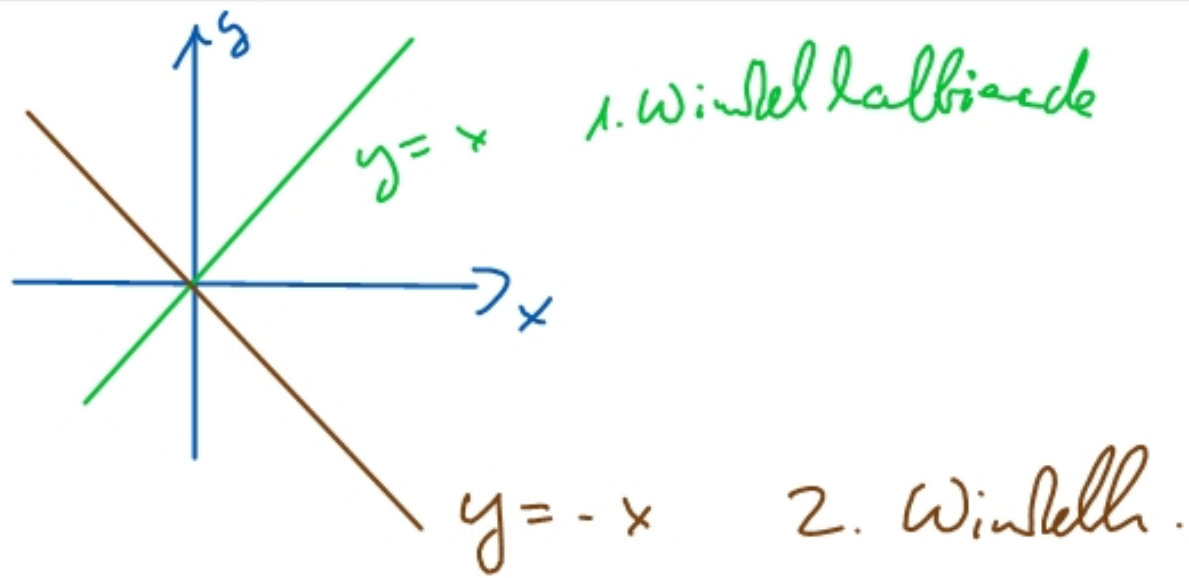
c) $y = mx + b$

$y = 1x + 0$

$y = \dots x$

$f'(x_0) = m$

b)	f	N	E	W				Nullstelle
	f'		N	E	W			Extrempunkt
	f''			N	E	W		Wendepunkt



2015 P3

a) höchstes
maximal

- Werte
c) - Psychologie (nervös)

b)
$$P(X=2) = \binom{n}{2} \cdot p^2 \cdot (1-p)^{n-2}$$

$n=5$ $k=4$ $\rightarrow ii$

2019 1B

①

$$f(0) = \frac{1}{5} = az$$

$$f(1) = 1$$

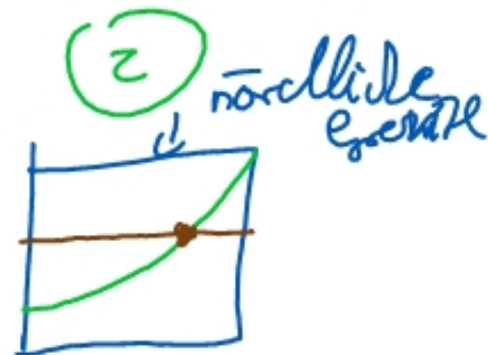
①

Ecken A(0|0)

B(0|1)

C(1|0)

D(1|1)



$$\int_0^1 f(x) dx = 0,49 \text{ m}^2$$

Strandenfläche

$$\text{Quadrat} = 1 \text{ m}^2$$

④

Ansatz: $y_1 = f(x)$

Nördliche Grenze $y = 1$

Abstand mind 0,3

$$1 - 0,49 = 0,51 \text{ m}^2$$

$$\Rightarrow y_2 = 0,7$$

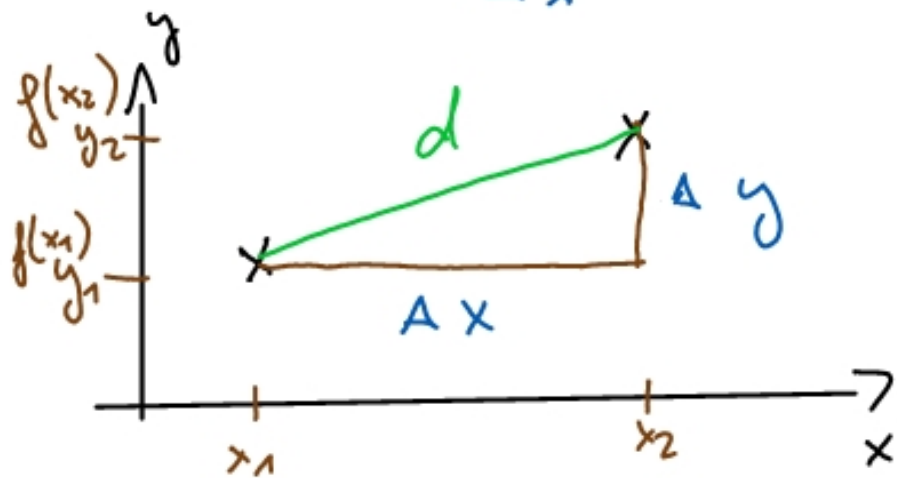
A(0,2)

E(0,7|0,7)

Intersekt
Schnittpunkt

$$x_1 = 0,77$$

$$d(x) = \sqrt{\underbrace{(x_1 - x_2)^2}_{\Delta x} + \underbrace{(f(x_1) - f(x_2))^2}_{\Delta y}}$$



$$a^2 + b^2 = c^2$$

↑
Hypotenuse
(d)

$$d(x) = \sqrt{\underbrace{(1-x)^2}_{\text{rechts}} + \underbrace{(1-f(x))^2}_{\text{oben}}} + \sqrt{\underbrace{(1-x)^2}_{\text{rechts}} + \underbrace{(0-f(x))^2}_{\text{oben}}}$$

~~$$\sqrt{2^2 + 3^2} = 2 + 3 = 5$$~~

$$\sqrt{13} \neq 5$$

$$P(x | f(x))$$

Ergebnisse östlich:
 C(1/0)
 D(1/1)

HA 2018:1A

2019 1B b)

$$y_3 = g(x)$$

$$g'(x) = 0$$

$$y_4 = 18x^2 - 18x + 4$$

zero oder ^{Min} _{Max} $g(x)$

② ohne Kind / Kindfrei

$$x_1 = \frac{1}{3} = 0,\overline{3}$$

$$P\left(\frac{1}{3} \mid \frac{5}{9}\right)$$

$$x_2 = \frac{2}{3} = 0,\overline{6}$$

$$(0,\overline{3} \mid 0,56)$$

$$P(0,2 \mid 0,488)$$

$$\hat{P}_g(0,2)$$

$$g'(0,2) = m = 1,12$$

Tangente:

$$y = m \cdot x + b$$

$$0,488 = 1,12 \cdot 0,2 + b$$

$$b = 0,264 \rightarrow y = 1,12x + 0,264$$

$$Q\left(\frac{2}{3} \mid \frac{4}{9}\right)$$
$$0,67 \mid 0,44$$

ostliche: $x=1 \rightarrow y$

westliche: $y=1 \rightarrow x$