

المسألة

(1, 0)

$$A \cup B = \{(1, 2), (2, 2), (2, 1), (1, 1), (1, 0), (2, 0), (0, 0)\} \Rightarrow 2 \times 2 = 4$$

$$\{4 - 2 = 2\}$$

$$B \cap B = \{(1, 2), (2, 2), (2, 1), (1, 1)\} \Rightarrow 2 \times 2 = 4$$

$$A \cup B - B = \{(1, 0), (2, 0)\}$$

(1, 0)

$$f(n) = \{(1, m), (2, 1), (-2, m), (-2, m), (2, m+1), (m+1, 1)\} \quad (1) \quad \text{نقطة}$$

$$n' = n+2 \rightarrow n' - n - 2 \leq 0 \rightarrow (n-2)(n+1) \geq 0 \quad \begin{matrix} m=2 \rightarrow (2, 1) \\ m=1 \rightarrow (1, 2) \end{matrix}$$

$$\rightarrow g(n) = \{(1, m), (2, 1), (m, 1), (2, m+1), (-2, m), (-1, 1)\}$$

$$n' = n+1 \rightarrow m=2 \rightarrow (2, 1), (2, 1) \quad \text{نقطة}$$

$$\rightarrow m=1 \rightarrow (1, 2), (-1, 2) \quad \text{نقطة}$$

$$f(n) = \begin{cases} n'-1 & n \leq 1 \quad (1) \quad a=1 \quad (2) \rightarrow a+b=0 \\ a+b & 1 \leq n \leq 2 \quad (2) \\ n' & n \geq 2 \quad (3) \quad a=2 \quad (3) \rightarrow a+b=1 \end{cases} \quad \begin{cases} a+b = (a+b) = 0 \\ a=n, b=-n \end{cases}$$

(1, 0)

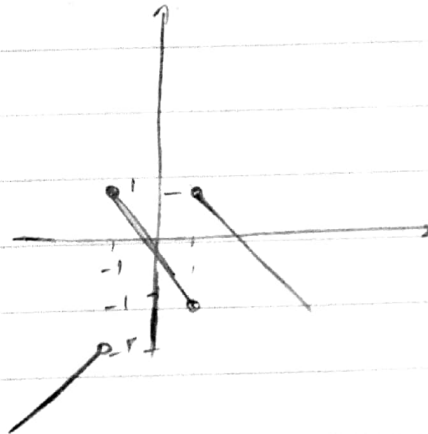
$$a+b = -4$$

$$xk - c = z - ck \rightarrow xk = r \rightarrow k = \frac{r}{a}$$

$$f(n) = \begin{cases} -n+1 & n > 1 \\ -n & -1 \leq n \leq 1 \\ n-1 & n < -1 \end{cases}$$

$$D_{f(n)} = \mathbb{R} - \{1\}$$

$$R_y = (-\infty, 1]$$



$$\text{نقطة} \quad y_r^n + n' + 1 \leq 0 \quad \begin{matrix} n_1 = n_r \\ y_r^n + 1 = n_1' \end{matrix}$$

$$\begin{cases} y_r^n + 1 = n_r' \\ y_r^n = y_r' \end{cases} \rightarrow y_r^n + 1 = y_r^n + 1$$

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Definit

Übungen

$$\Rightarrow x' + 8y' - (n-1)x + 10y = 0 \quad | : 10$$

✓ (Y)

$$(n-1)x' + (8y-10)y' = 0 \quad | : 2$$

$$\begin{aligned} n-1 &= 0 & 8y-10 &= 0 \\ n &= 1 & y &= \frac{5}{4} \end{aligned}$$

$$\text{ii) } n \sin y = y \sin n$$

$$n=0 : \text{überprüfe} \quad - 1$$

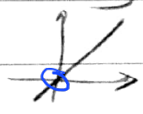
$$n=0 \Rightarrow y \text{ beliebig}$$

(Y)

$$\Rightarrow \sqrt{\frac{n}{y}} + \sqrt{\frac{y}{n}} = r \quad | \cdot \sqrt{ny} \quad \left(\sqrt{\frac{n}{y}} + \sqrt{\frac{y}{n}} \right) = r$$

$$\frac{n}{y} + \frac{y}{n} = r \quad | \cdot ny \quad \frac{n^2 - y^2}{ny} = r \quad | \cdot ny \quad n^2 - rny + y^2 = 0$$

$$(n-y)^2 = 0 \Rightarrow n=y$$



$$\text{iii) } y = \sqrt{\frac{n-1}{n-c}} + \sqrt{\frac{r-n}{n}}$$

✓

$$y = \sqrt{\frac{n-1}{n-c}} \Rightarrow \frac{1}{+} \frac{1}{0} \frac{c}{+} \quad D_y = (-\infty, 1] \cup (c, +\infty)$$

(Y)

$$y = \sqrt{\frac{r-n}{n}} \Rightarrow \frac{0}{-} \frac{r}{+} \frac{0}{-} \quad D_y = (0, r]$$

$$n = (0, 1]$$

$$\Rightarrow \sqrt{n} + \sqrt{y-1} = \sqrt{c} \quad | n \geq 0$$

$$\sqrt{y-1} = \sqrt{c} - \sqrt{n}$$

$$\sqrt{c} - \sqrt{n} \geq 0 \Rightarrow n \leq c$$

$$\left. \begin{aligned} n \geq 0 \\ n \leq c \end{aligned} \right\} D_y = [0, c]$$

المميز

جواب

$$1) y = \frac{\sqrt{n^2 - 4n + 4}}{\sqrt{(n-2)(n-1)}} = \frac{\sqrt{(n-2)(n-1)}}{\sqrt{(n-2)(n-1)}} \quad D_y = (-\infty, 1] \cup (1, \infty)$$

1.5.1) $n^2 - 4n + 4$ $n \leq 1$

$$\sqrt{(n-2)(n-1)} \Rightarrow \begin{array}{c} + \quad - \quad + \end{array} \quad D_y = (-\infty, 1] \cup [4, \infty)$$

$$\sqrt{(n-2)(n-1)} \Rightarrow \begin{array}{c} + \quad - \quad + \end{array} \quad D_y = (-\infty, 2) \cup (1, \infty)$$

1,0

$$2) y = \frac{\sqrt{(n-4)(n-1)}}{\sqrt{(n-2)(n-1)}}$$

	1	2	4	1	1
$n^2 - 4n + 4$	+	0	-	-	+
$n^2 - 1$	+	+	0	-	+
	+	0	-	+	0

$$D_y = (-\infty, 1] \cup (1, 4] \cup (1, \infty)$$

$$3) y = \frac{\sqrt{n^2 - 2n + 1}}{\sqrt{n^2 - 4n + 4}} = \frac{\sqrt{(n-1)(n-1)}}{\sqrt{(n-2)(n-1)}}$$

$$n^2 - 2n + 1 = 0 \rightarrow (n-1)(n-1) \rightarrow n = 1$$

$$\begin{cases} n = 1 \\ n = 1 \end{cases}$$

$$n^2 - 4n + 4 = 0 \rightarrow (n-2)(n-2) \rightarrow n = 2$$

$$n = \frac{2}{1} = 2$$

$$D_y = (-\infty, 1] \cup [2, \infty)$$

$$D_y = (-\infty, 1) \cup (2, \infty) \quad D_y = (-\infty, 1) \cup [2, \infty)$$

$$4) \frac{\sqrt{(n-1)(n-1)}}{\sqrt{(n-1)(n-2)}}$$

$$D = (-\infty, 2) \cup [1, \infty) - \{1\}$$

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