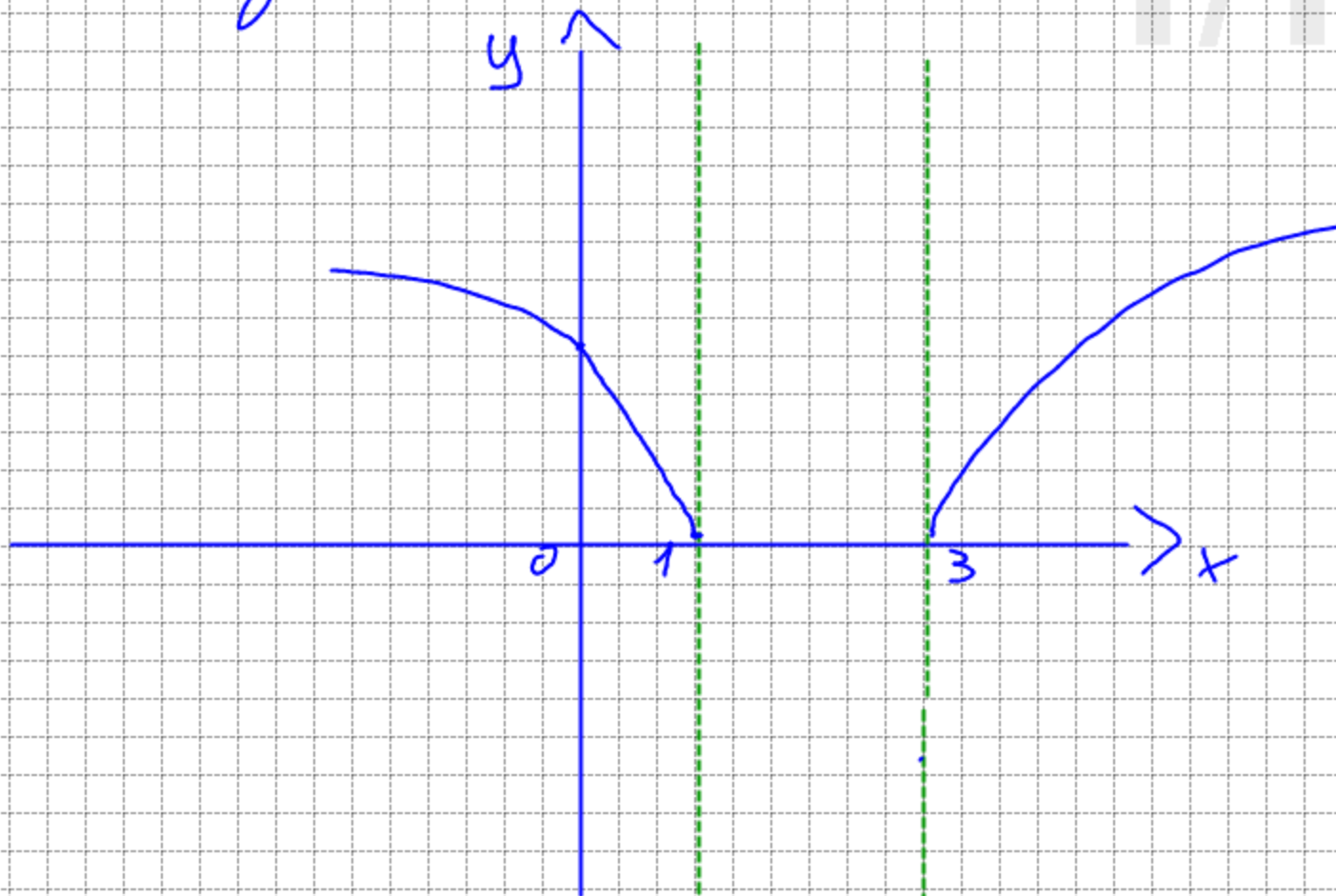


$$f(x) = \sqrt{x^2 - 4x + 3}$$



$$D_f = \{x \in \mathbb{R} / x^2 - 4x + 3 \geq 0\}$$

$$x^2 - 4x + 3 = 0 \quad x_{1/2} = 2 \pm \sqrt{4-3} = 2 \pm 1$$

$$x_1 = 1 \quad x_2 = 3$$

$$D_f (-\infty; 1] \cup [3; +\infty)$$

$$y = \sqrt{x^2 - 4x + 3}$$

$$\begin{cases} y^2 = x^2 - 4x + 3 \\ y \geq 0 \\ x^2 - 4x + 3 \geq 0 \end{cases}$$

$$\begin{cases} y^2 - x^2 + 4x - 3 = 0 \\ y \geq 0 \\ x \leq 1 \cup x \geq 3 \end{cases}$$

$$\begin{cases} x^2 - y^2 - 4x + 3 = 0 \\ y \geq 0 \\ x \leq 1 \cup x \geq 3 \end{cases}$$

$$\begin{aligned} (x^2 - 4x + 4) - y^2 - 1 &= 0 \\ (x-2)^2 - y^2 &= 1 \end{aligned}$$