

$$y = \arcsin\left(\frac{x-2}{4}\right)$$

$$\text{D}(f) \arcsin(x) \Rightarrow x \in [-1; 1]$$

$$x \in [-1; 1]$$

$$-1 \leq \frac{x-2}{4} \leq 1$$

$$-4 \leq x-2 \leq 4$$

$$-2 \leq x \leq 6$$

$$x \in [-2; 6]$$

$$y = x^2 + 6x + 12$$

$$x \in \mathbb{R}$$

$$y = 2 + 6\sin(x)$$

$$\text{S.T. } x \text{ npu } \sin x \in \mathbb{R}, \Rightarrow$$

$$y = 2 + 6\sin x$$

$$x \in \mathbb{R}$$

$$y = \sqrt{x} + \sqrt[4]{x-1}$$

$D(f)$:

$$\sqrt{x} - \text{npu } x \geq 0$$

$$\sqrt[4]{x-1} - \text{определена npu } x-1 \geq 0$$

$$x \geq 1$$

$$\begin{cases} x \geq 0 \\ x \geq 1 \end{cases}$$

$$x \in [1; +\infty)$$

$$y = \log_3 (x^2 - 16)$$

$D(f)$:

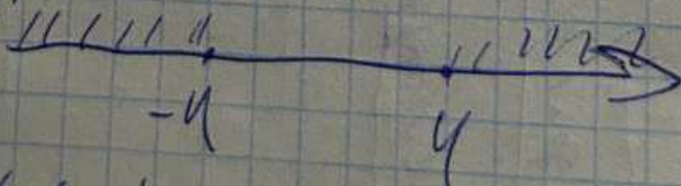
$$x^2 - 16 > 0$$

$$x^2 > 16$$

$$|x| > 4$$

$$x > 4 \quad ; \quad x < -4$$

$D(f)$



$$x \in (-\infty; -4) \cup (4; +\infty)$$