

Definiční obor

$$f(x) = \sqrt{\log^1 [\log^2 (x+8)]}$$

I) Odmocnina

$$\log [\log (x+8)] \geq 0$$

II) \log^1

$$\log (x+8) > 0$$

III) \log^2

$$x+8 > 0$$

Neuvolně body

I) $\log [\log (x+8)] = 0 \quad | \text{odlog}$

$$\log (x+8) = 10^0$$

$$\log (x+8) = 1 \quad | \text{odlog}$$

$$x+8 = 10^1 \quad | -8$$

$$\underline{\underline{x=2}}$$

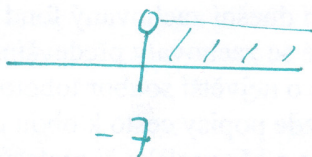


II) $\log (x+8) = 0 \quad | \text{odlog}$

$$(x+8) = 10^0$$

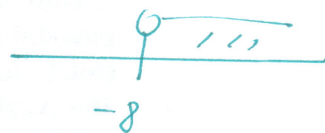
$$x+8 = 1 \quad | -8$$

$$\underline{\underline{x=-7}}$$

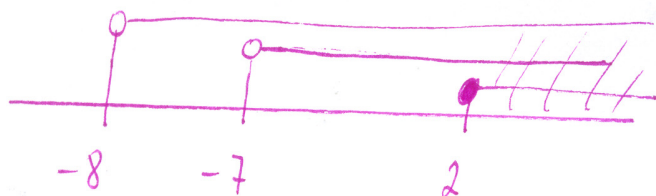


III) $x = 8$

$$\underline{\underline{x=-8}}$$

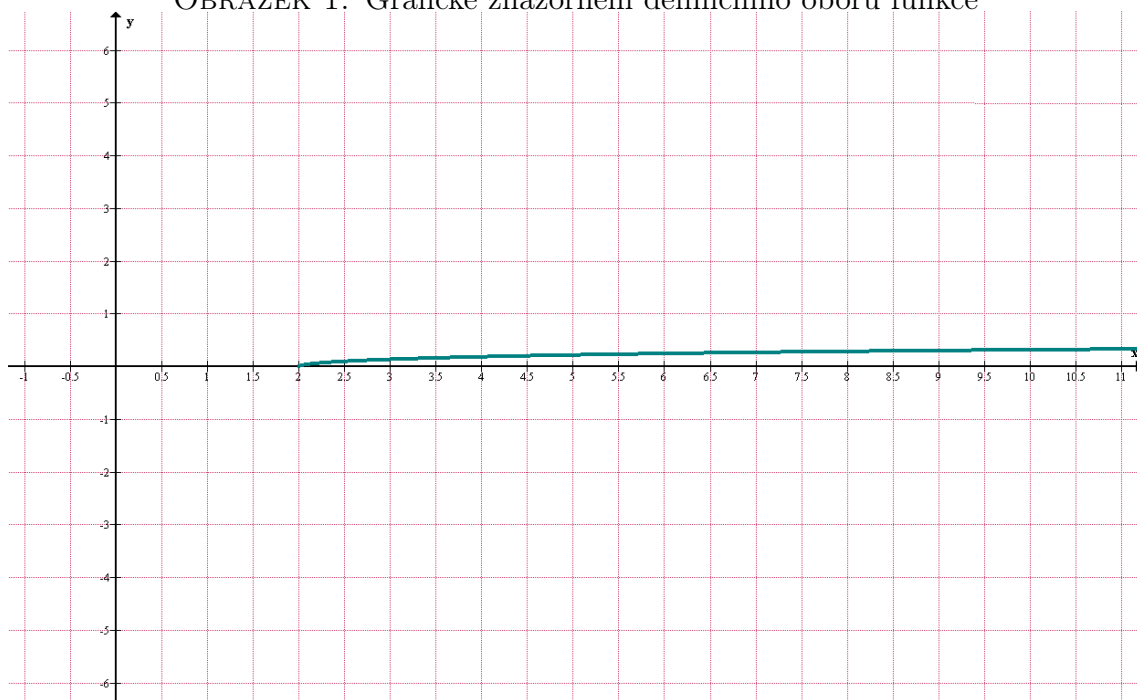


Průnik obětích podmíněk



$$x \in \langle 2; \infty \rangle$$

OBRÁZEK 1. Grafické znázornění definičního oboru funkce



Zdroj: program Graph