



$$f(x) = \log(1 - \sqrt{x})$$

$$D_f = [0, 1)$$

$$x = 0\text{-nál maximum}$$

$$f(0) = 0$$

$$\lim_{x \rightarrow 1^-} \log(1 - \sqrt{x}) = -\infty$$

$$\frac{\partial}{\partial x} (\log(1 - \sqrt{x})) = \frac{1}{2(x - \sqrt{x})} < 0$$

$$\frac{\partial}{\partial x} \left( \frac{1}{2(x - \sqrt{x})} \right) = \frac{1 - 2\sqrt{x}}{4\sqrt{x^3}(\sqrt{x} - 1)^2}$$

$$= 0 \text{ ha } x = \frac{1}{4}$$

$$< 0 \text{ ha } 0 > x < \frac{1}{4}$$

$$> 0 \text{ ha } \frac{1}{4} < x < 1$$

$$R_j = (-\infty, 0]$$