

$$\sqrt{y} = -\sqrt{x} + r \rightarrow y = (r - \sqrt{x})^2 \rightarrow \sqrt{f(x)} = |r - \sqrt{x}| = r - \sqrt{x} \rightarrow \cdot \sqrt{x} \leq r \rightarrow \cdot x \leq r^2 \quad (1.)$$

$$f(f(x)) = (r - \sqrt{f(x)})^2 = (r - (r - \sqrt{x}))^2 = x$$

