

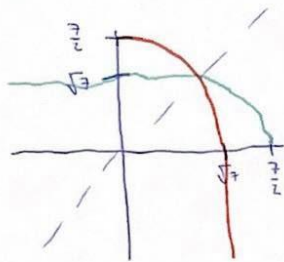
$$a, \underline{f(x) = \sqrt{7-2x}}$$

$$7-2x \geq 0$$

$$x \leq \frac{7}{2}$$

$$Df = (-\infty, \frac{7}{2})$$

$$Hf = (0, \infty)$$



$$f^{-1}(x) = \frac{7-x^2}{2}$$

$$x = \sqrt{7-2y}$$

$$x^2 = 7-2y$$

$$y = \frac{7-x^2}{2}$$

$$Df = (0, \infty)$$

$$Hf = (-\infty, \frac{7}{2})$$

$$b, g: \mathbb{R} \rightarrow \mathbb{R}$$

$$g(x) = \left(\frac{1}{2}\right)^x$$

$$\text{prostá: } f(x_1) = f(x_2) \wedge x_1 \neq x_2$$

$$\left(\frac{1}{2}\right)^{x_1} = \left(\frac{1}{2}\right)^{x_2}$$

$$x_1 = x_2$$

$$\text{Ohraničená: } Hf = (0, \infty)$$

$$a \in (-\infty, 0] \left(\frac{1}{2}\right)^a = 2^a = \text{kladný}$$

$$b \in (0, \infty) \left(\frac{1}{2}\right)^b = \left(\frac{1}{2}\right)^b = \text{kladný}$$

funkce může být ohraničená a prostá