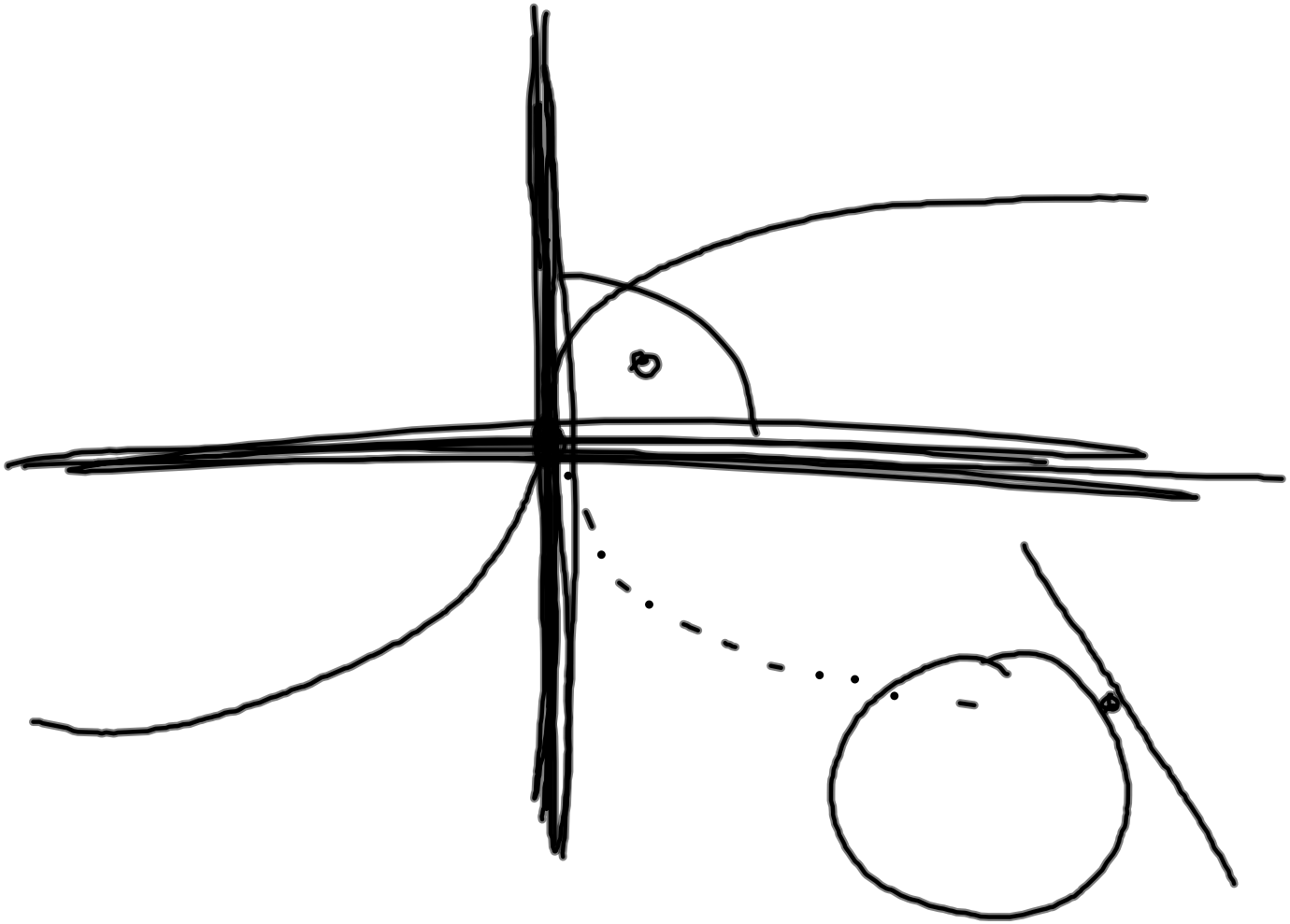


$$(f \cdot g \cdot h \cdot k)' = [(f g h) \cdot k]' =$$

$$= f' \cdot g h \cdot k + f \cdot g' \cdot h \cdot k + f g h' k +$$

$$+ f g h k'$$

$$\lim_{h \to 0} \frac{\sin h}{h} = 1$$

$$\lim_{h \to 0} \frac{\sin c \cdot h}{h} = \lim_{h \to 0} \left(\frac{\sin ch}{ch} \cdot c \right) =$$

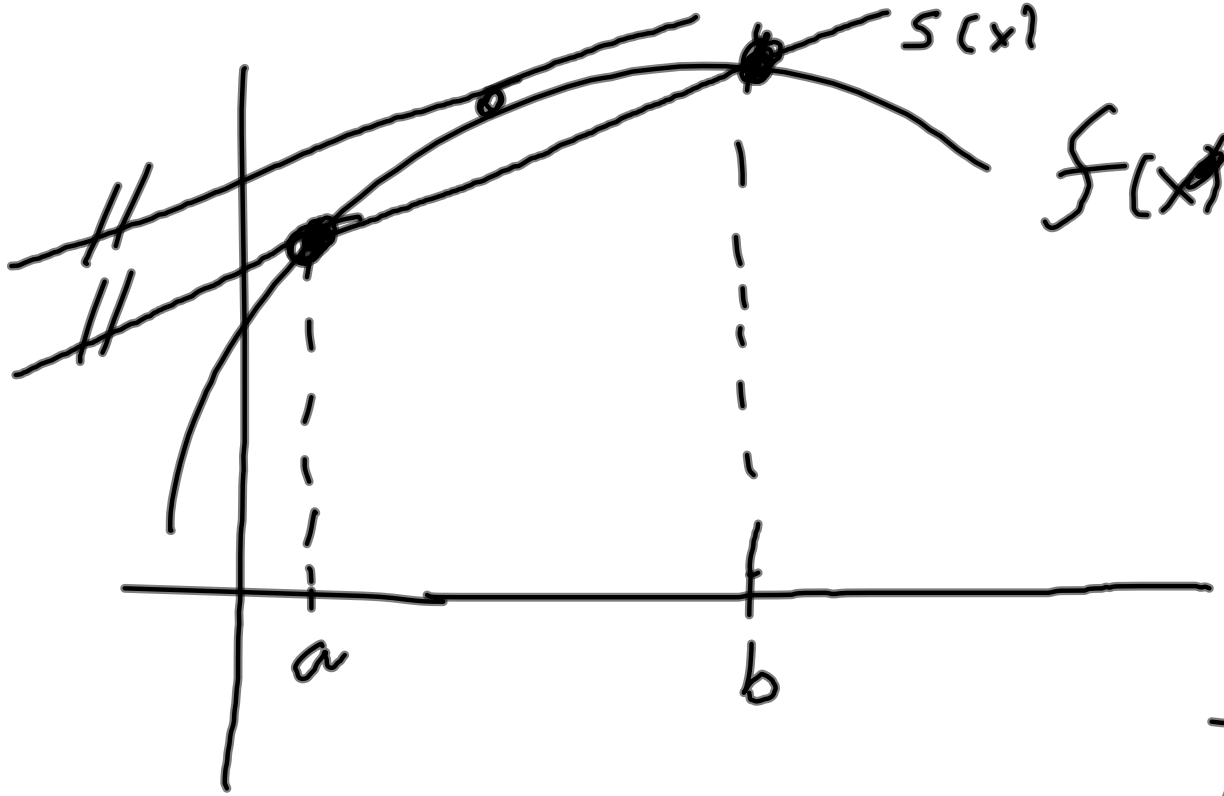
$$= c \cdot \lim_{h \to 0} \frac{\sin ch}{ch} = \left| \begin{array}{l} x = ch \\ h \to 0 \Rightarrow x \to 0 \end{array} \right| =$$

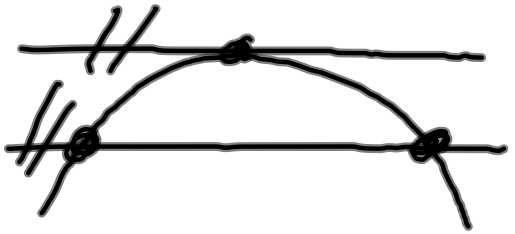
$$= c \cdot \lim_{x \to 0} \frac{\sin x}{x} = c \cdot 1 = c$$

$$(\operatorname{ctg} x)' = \left(\frac{\cos x}{\sin x}\right)' = \frac{(\cos x)' \sin - \cos x (\sin x)'}{\sin^2 x}$$

$$= \frac{-\sin^2 x - \cos^2 x}{\sin^2 x} = \frac{-1}{\sin^2 x}$$

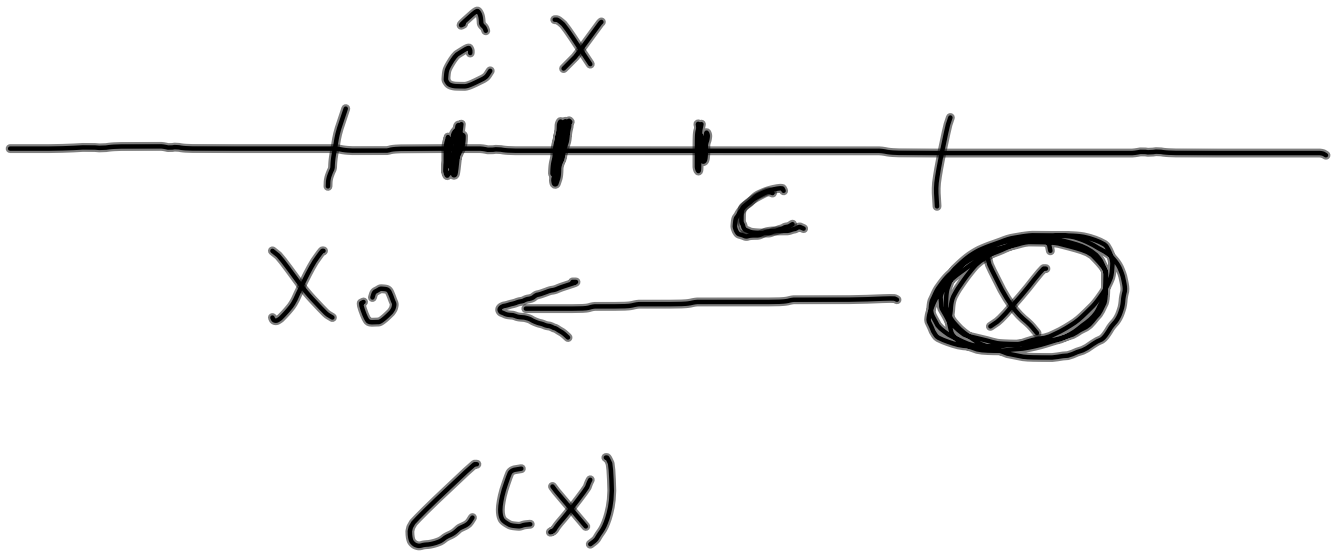
$$1$$





$$f(x) - S(x) \Big| = 0$$

$x = a$
$x = b$

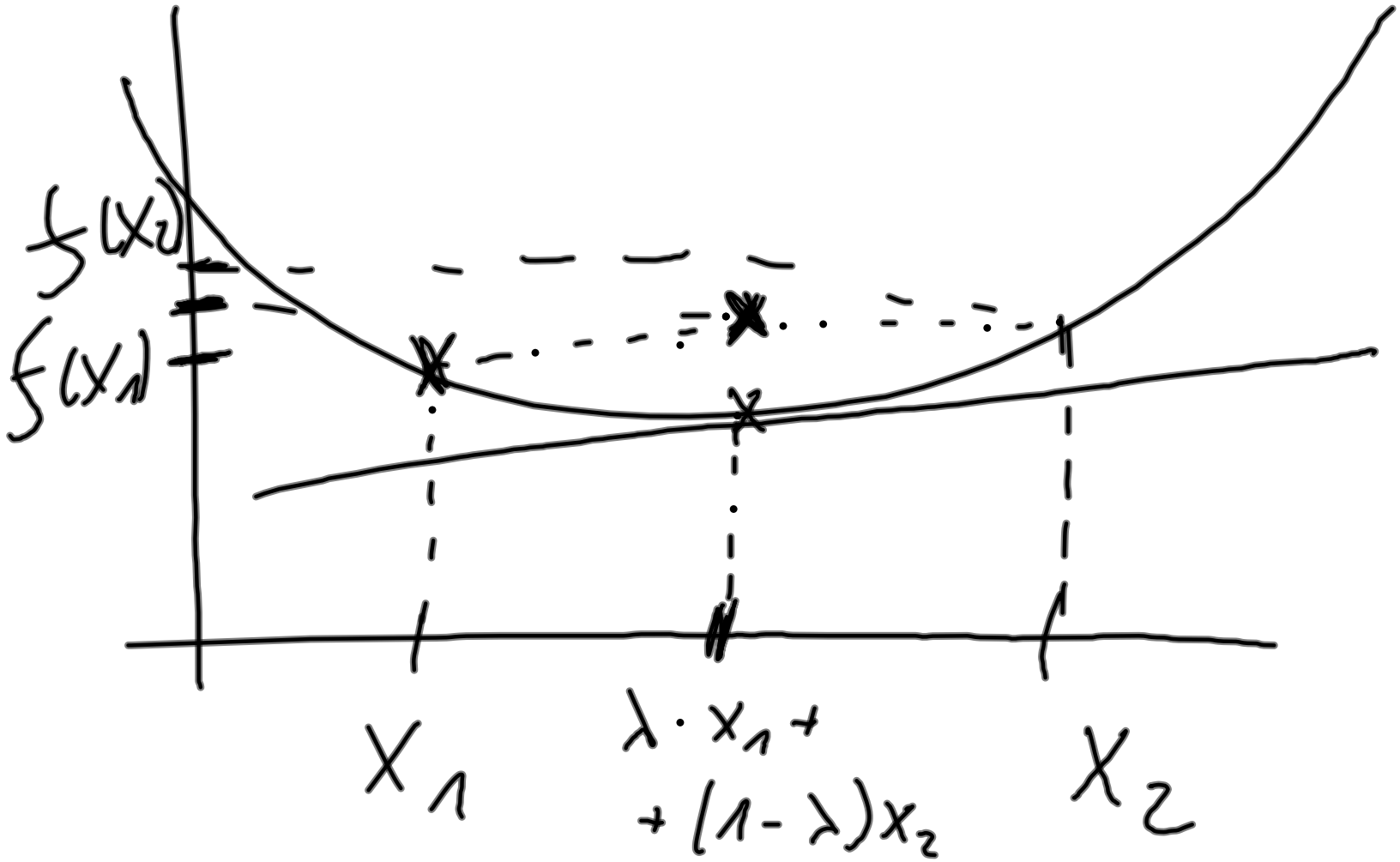

$\hat{c}$
X
c
X_0
X
$\mathcal{L}(X)$

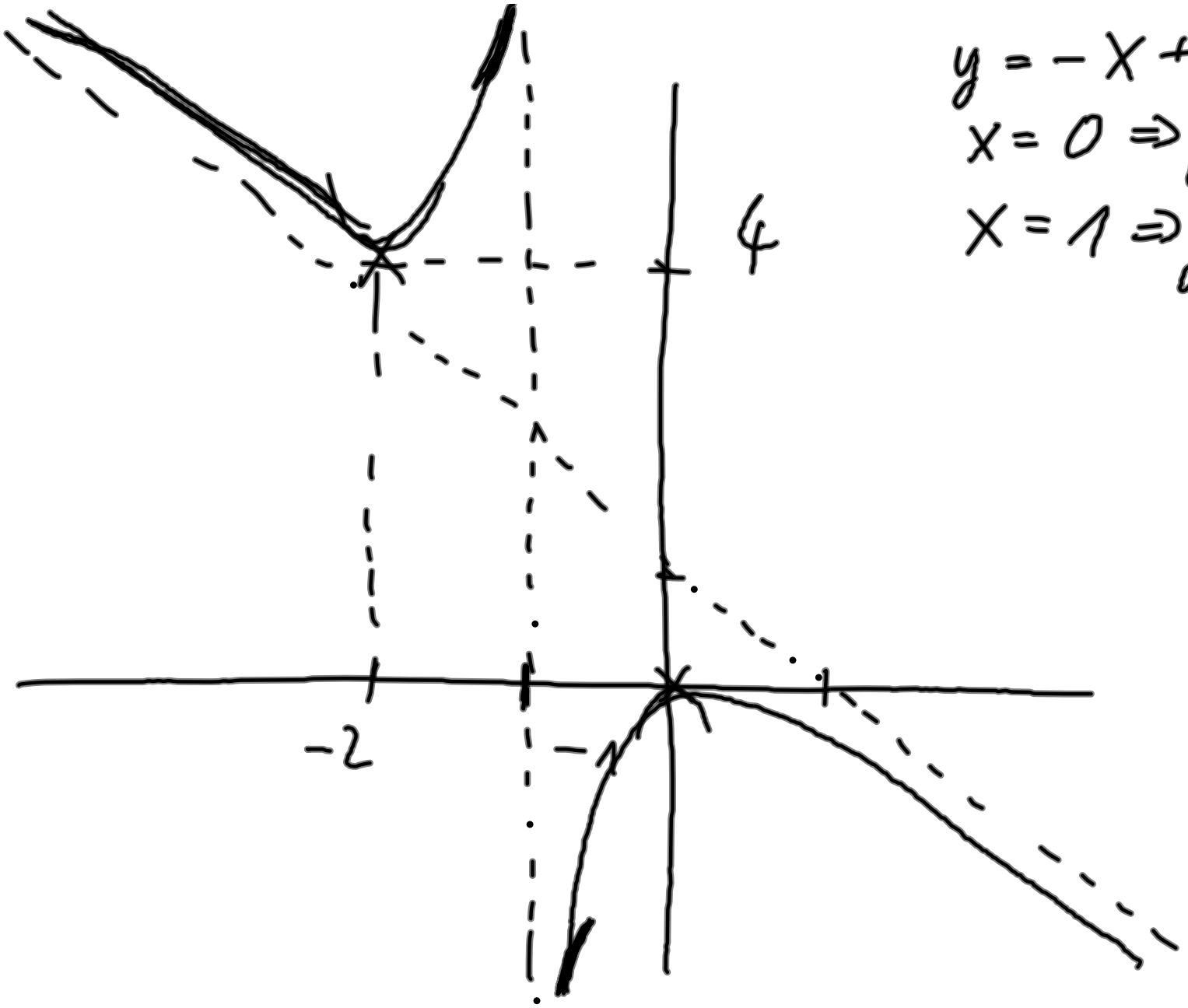
$$\frac{f}{g} = \left| \frac{0}{0} \right| = \dots$$

$$\frac{\left(\frac{1}{g}\right)}{\left(\frac{1}{f}\right)} = \left| \frac{\infty}{\infty} \right| = \dots$$

$$\lim_{x \to 0} \frac{\sin x}{x} = \left|\frac{0}{0}\right| =$$

$$= \lim_{x \to 0} \frac{\cos x}{1} = 1$$


f(x2)
f(x1)
x1
λ·x1 +
+ (1-λ)x2
x2



$y = -x + 1$

$x = 0 \Rightarrow y = 1$

$x = 1 \Rightarrow y = 0$