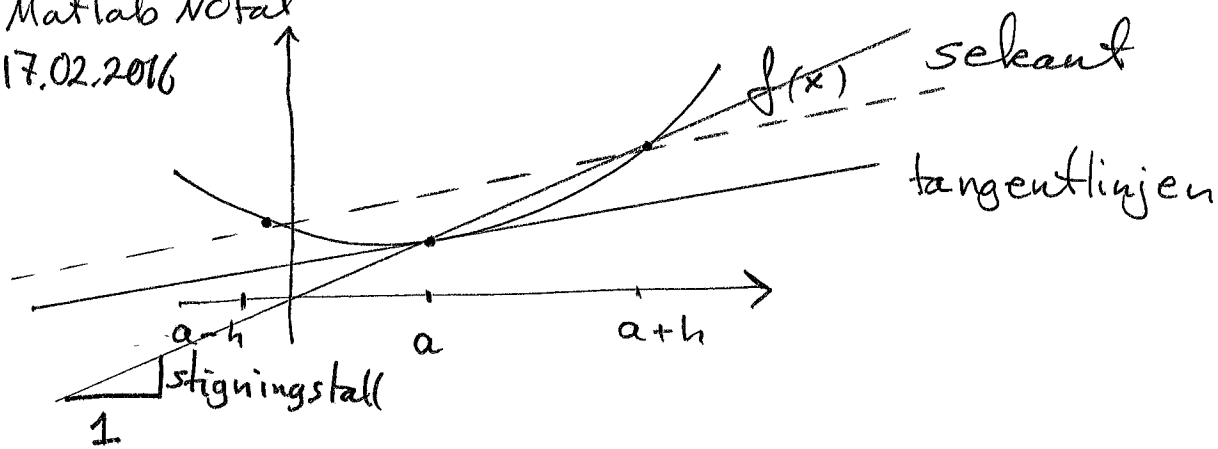


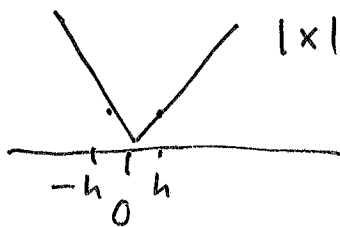
Matlab Notat
17.02.2016



Deriverede til f i a : $f'(x) = \frac{df}{dx} = \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$

$$\frac{f(a+h) - f(a-h)}{2h}$$

"numerisk deriverede"



ikke deriverbar i 0.

mens $\frac{f(h) - f(-h)}{2h} = 0$ for alle h !

$f(x) = |x|$

Å bevise at $\lim_{h \rightarrow 0} \frac{f(a+h) - f(a-h)}{2h}$ eksisterer er

ikke sværesere enn å bevise at $\lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$ eksisterer.