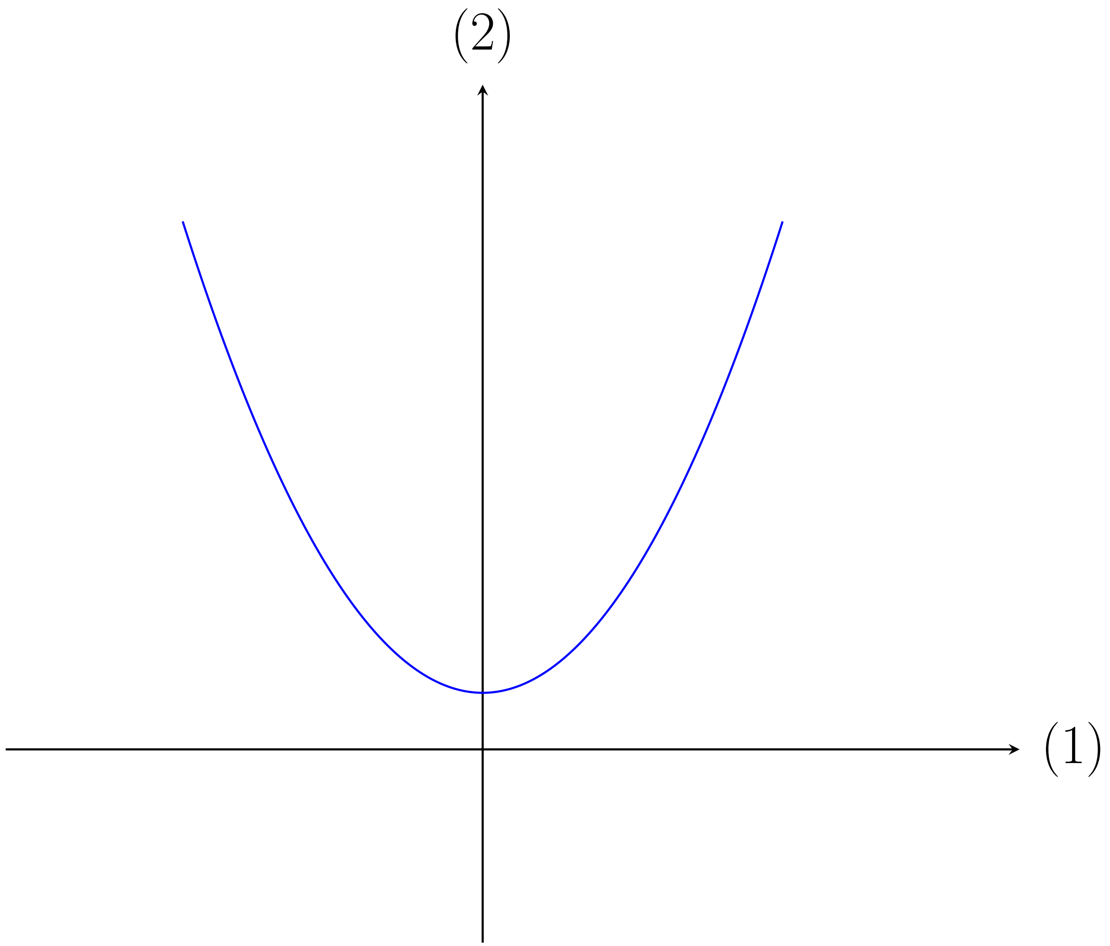
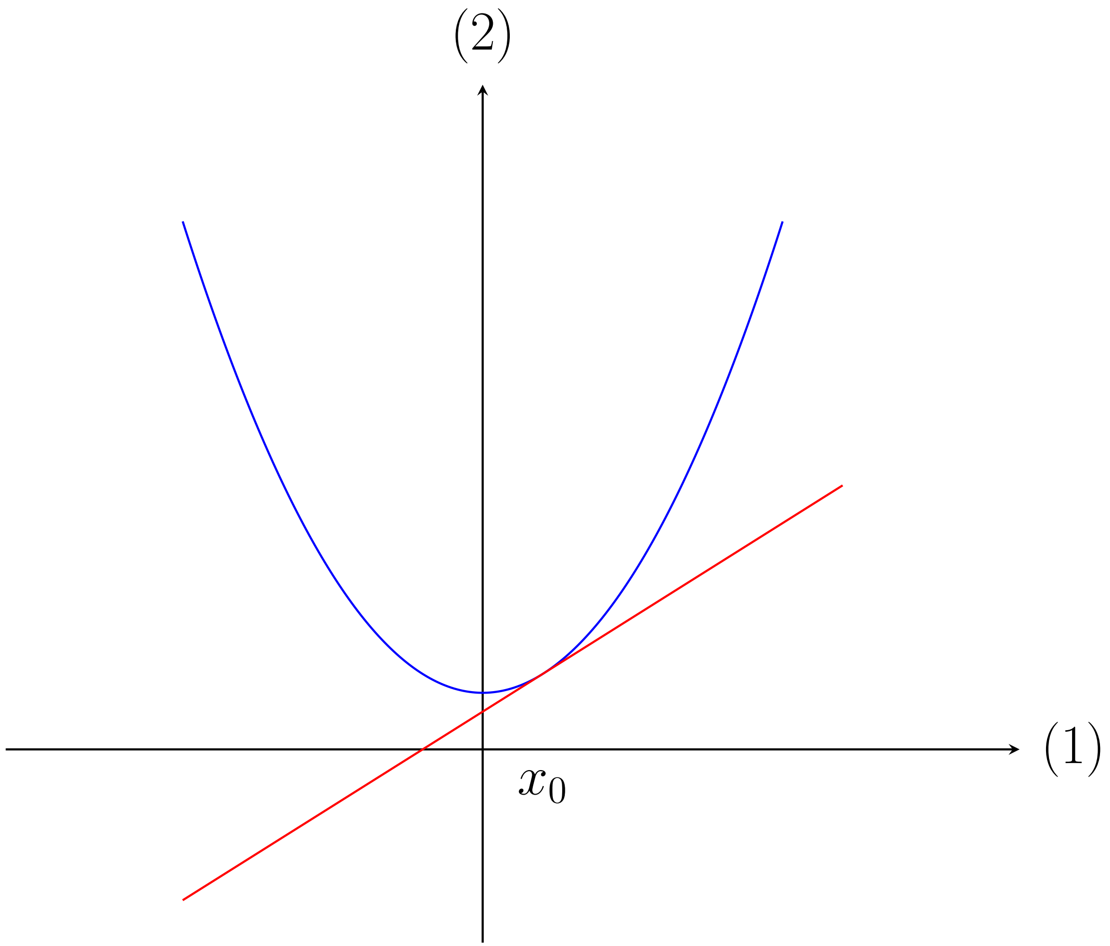
Definition af f'

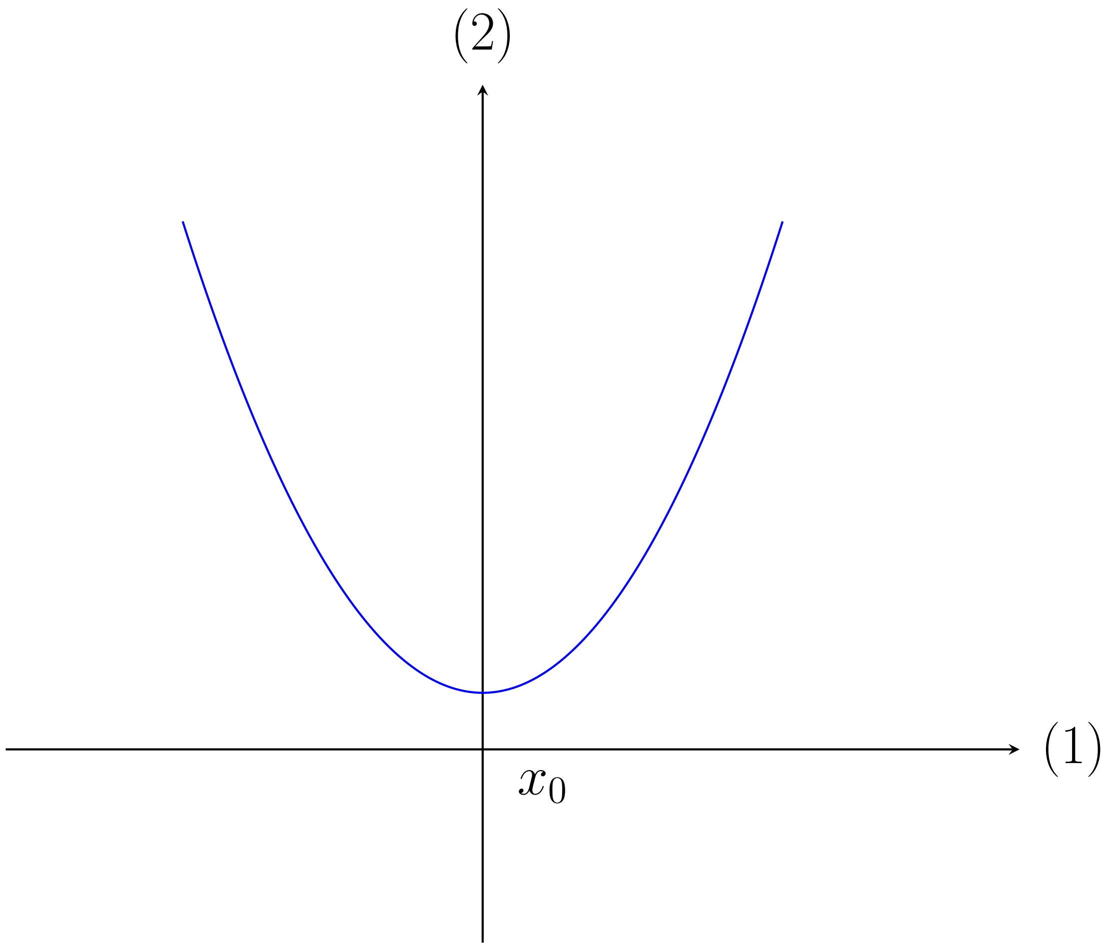


Definition af f'



Definition af f'

$$\frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$



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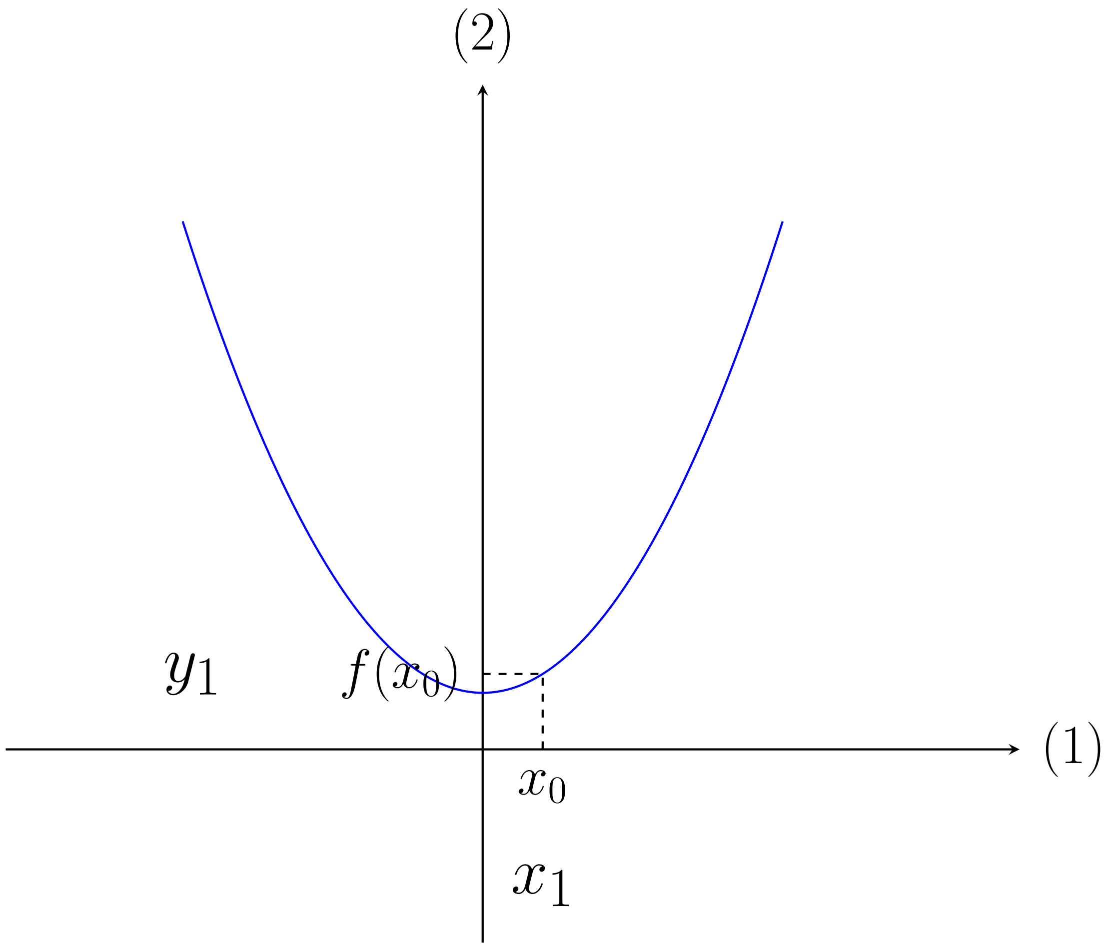

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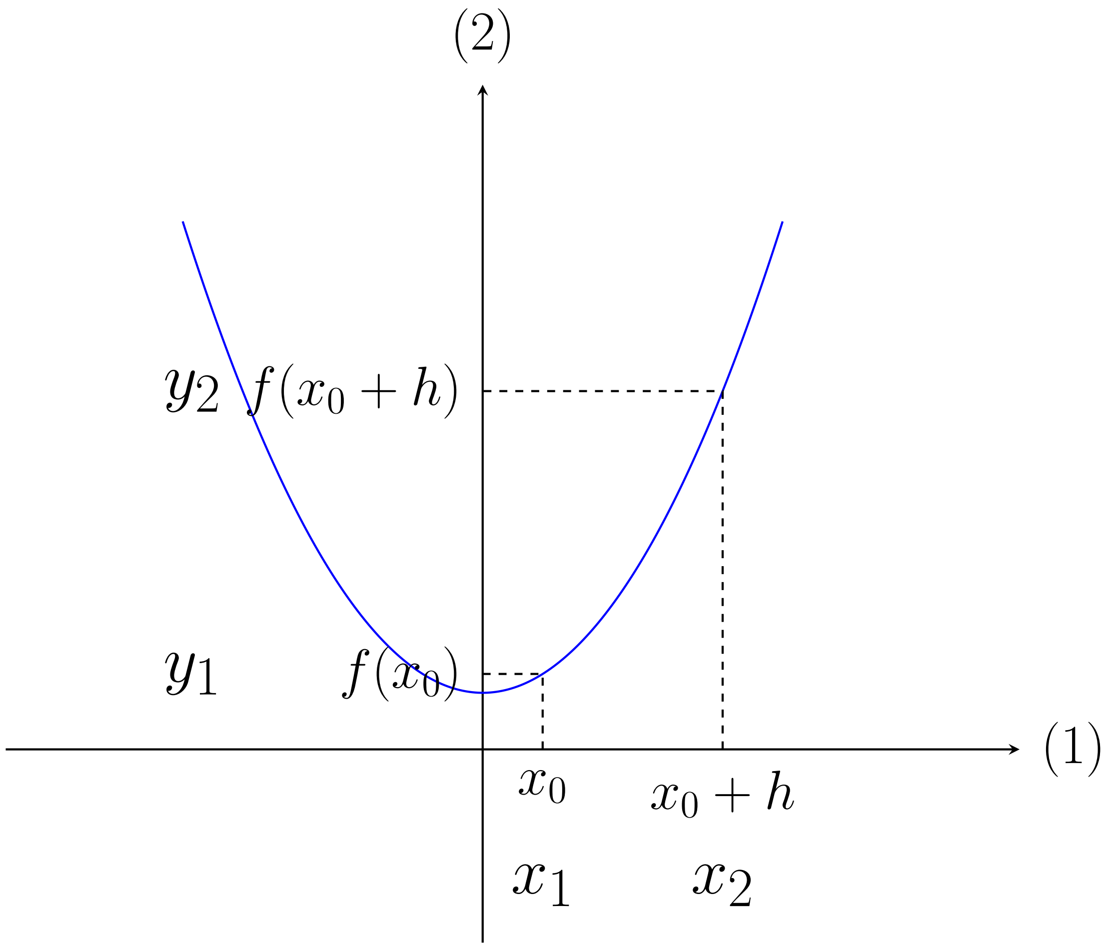
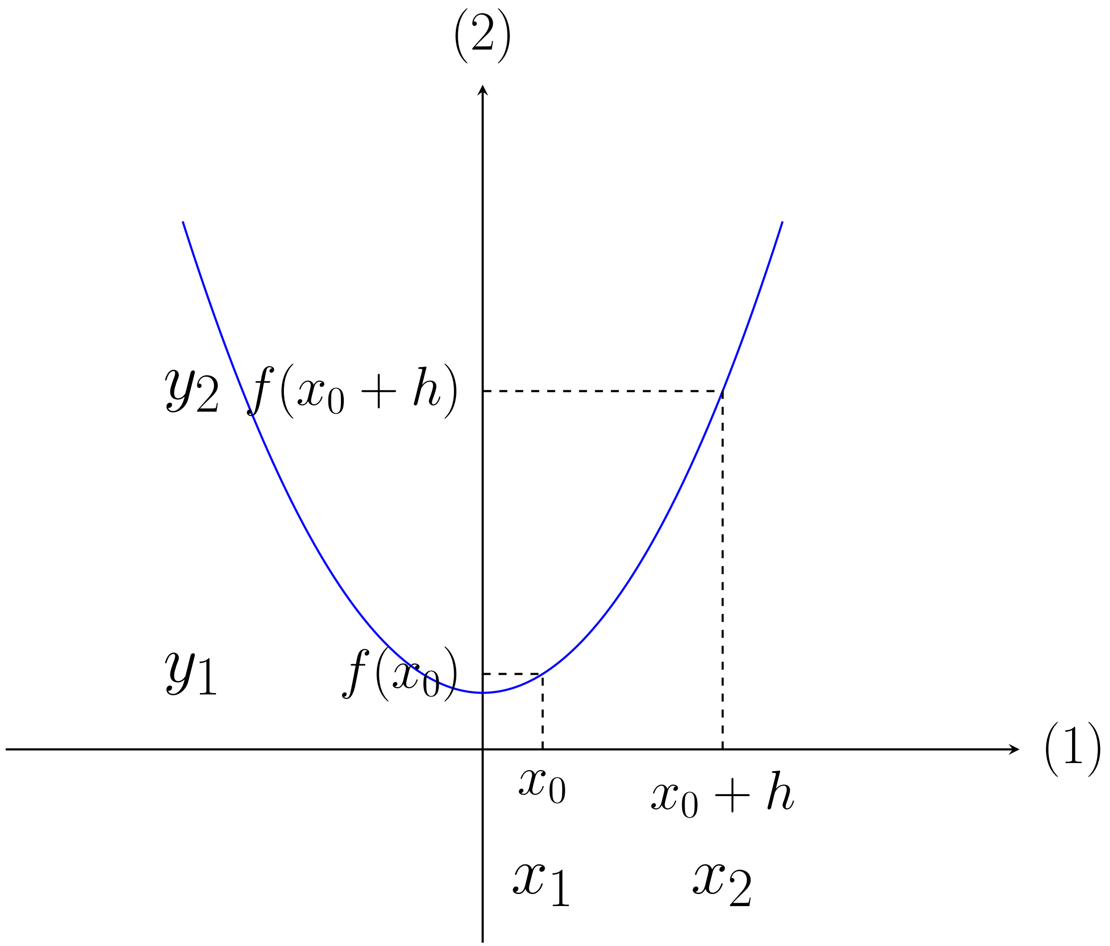


Definition af f'

$$\frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{f(x_0 + h) - f(x_0)}{x_0 + h - x_0}$$



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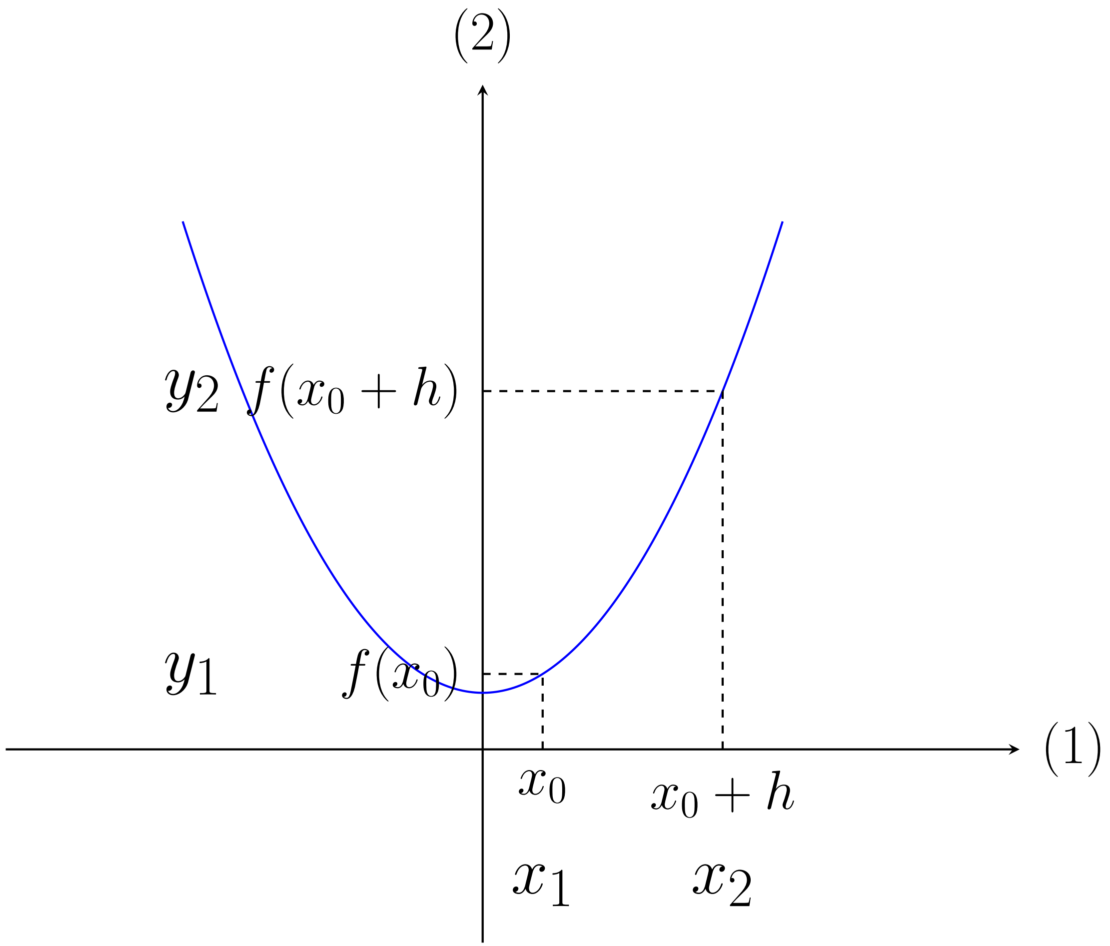
$$\begin{aligned}\frac{\Delta y}{\Delta x} &= \frac{y_2 - y_1}{x_2 - x_1} \\ &= \frac{f(x_0 + h) - f(x_0)}{x_0 + h - x_0} \\ &= \frac{f(x_0 + h) - f(x_0)}{h}\end{aligned}$$



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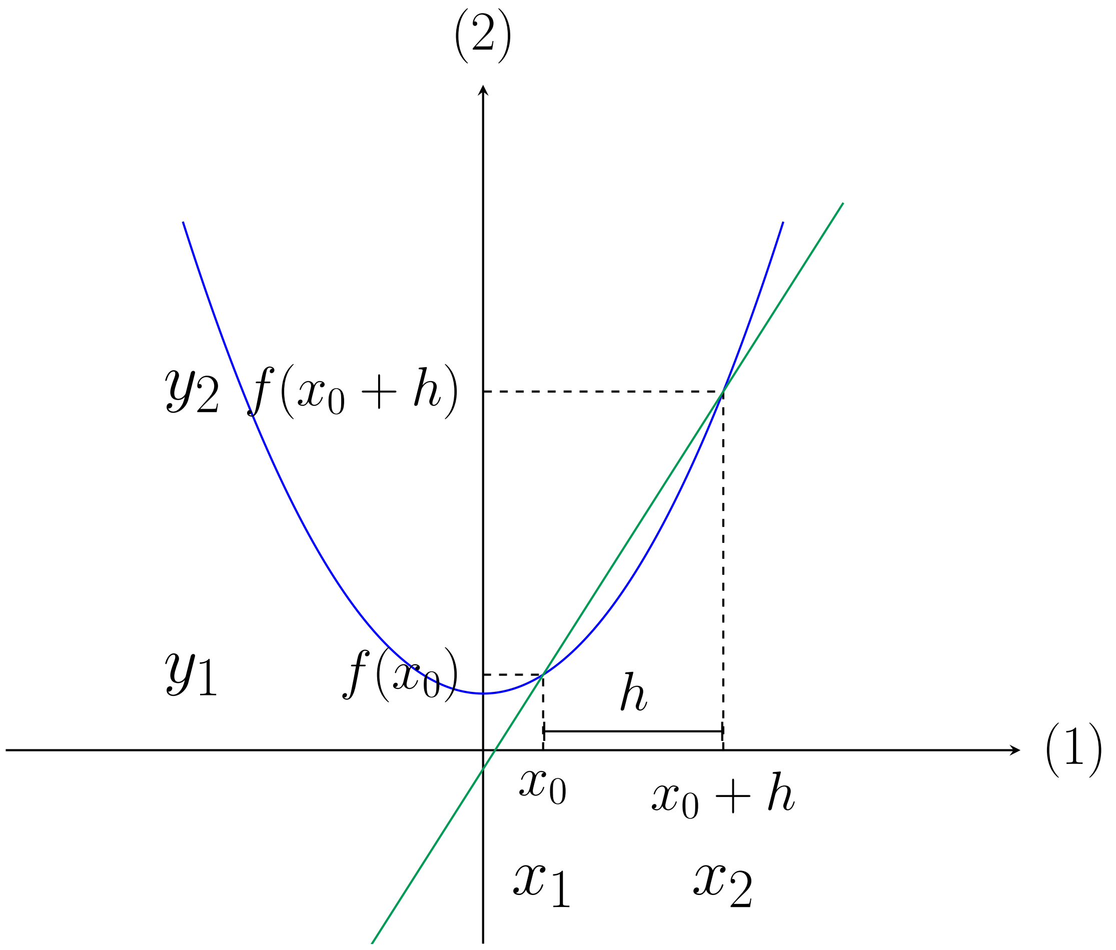

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\lim_{\Delta x \to 0} \frac{\Delta y}{\Delta x} &= \lim_{h \to 0} \frac{f(x_0+h) - f(x_0)}{h} \\
&= f'(x_0)
\end{aligned}
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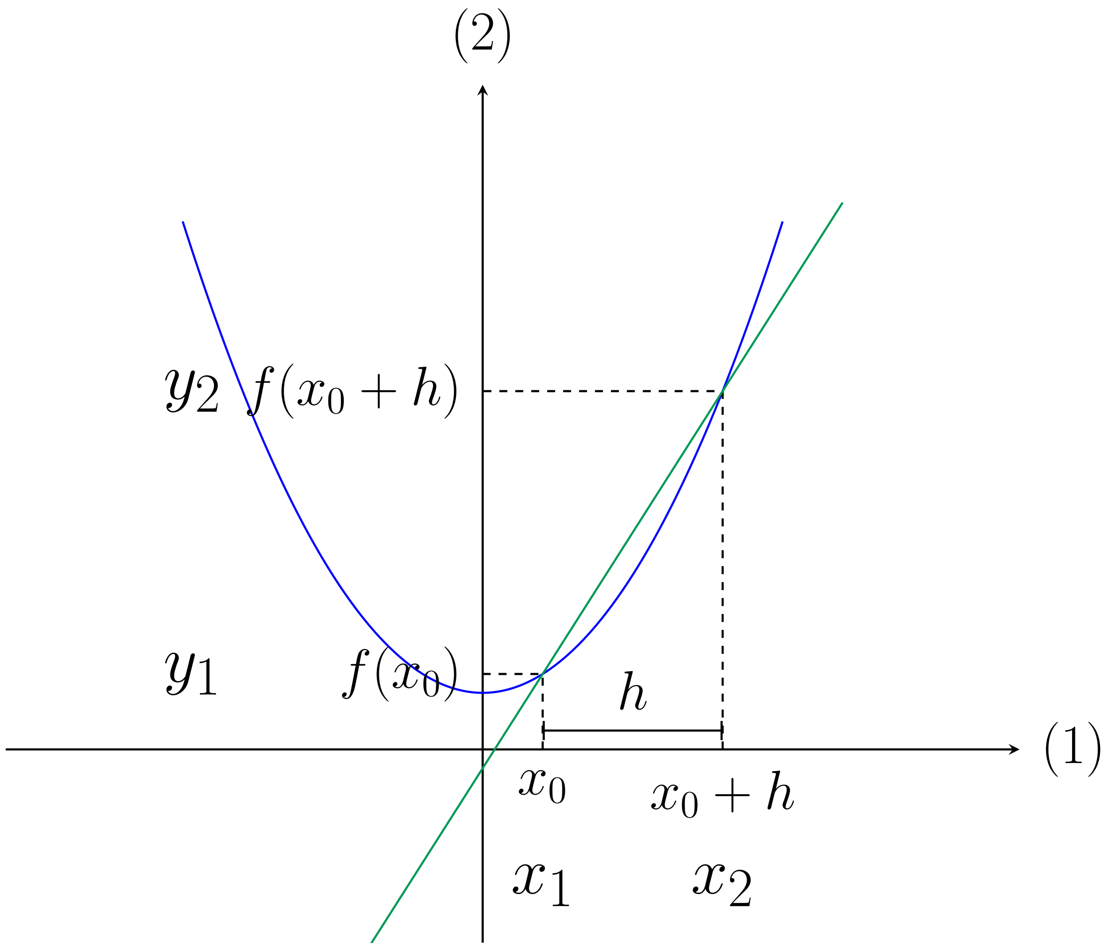

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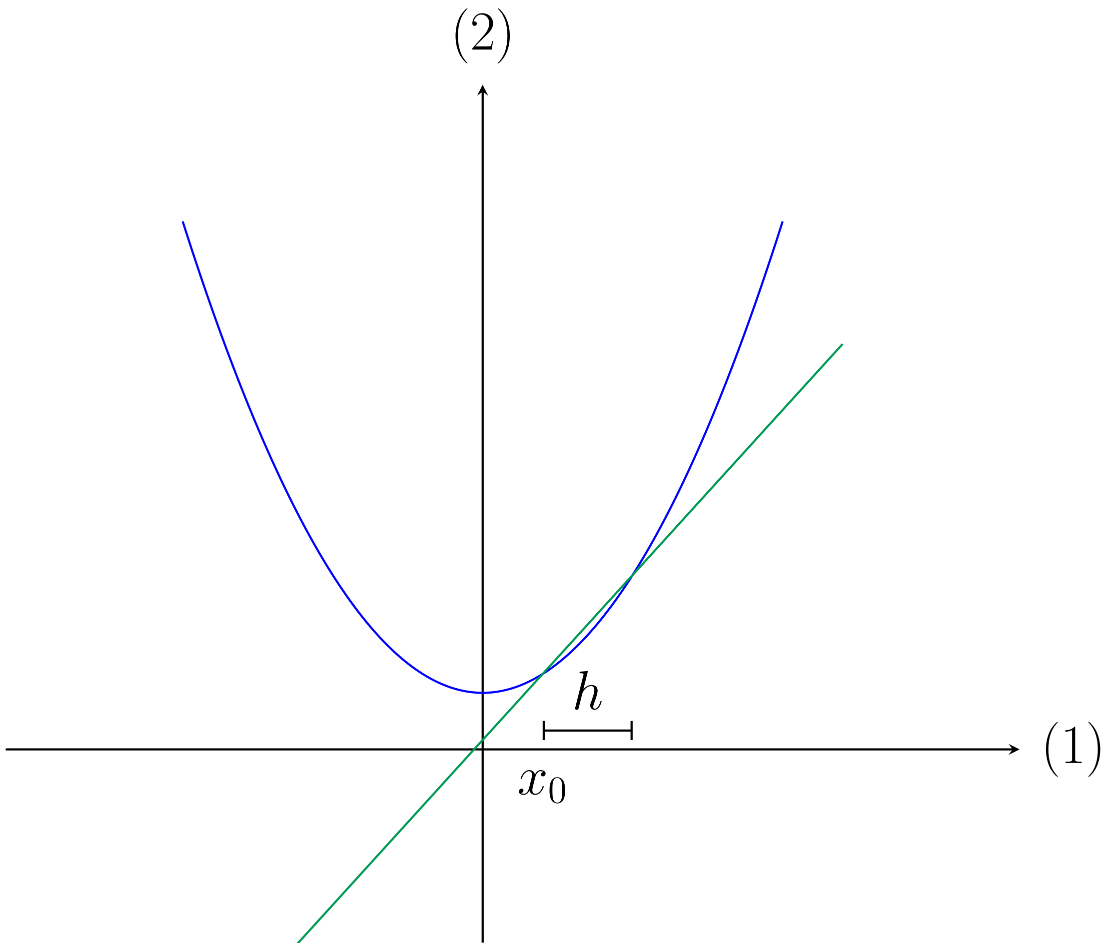

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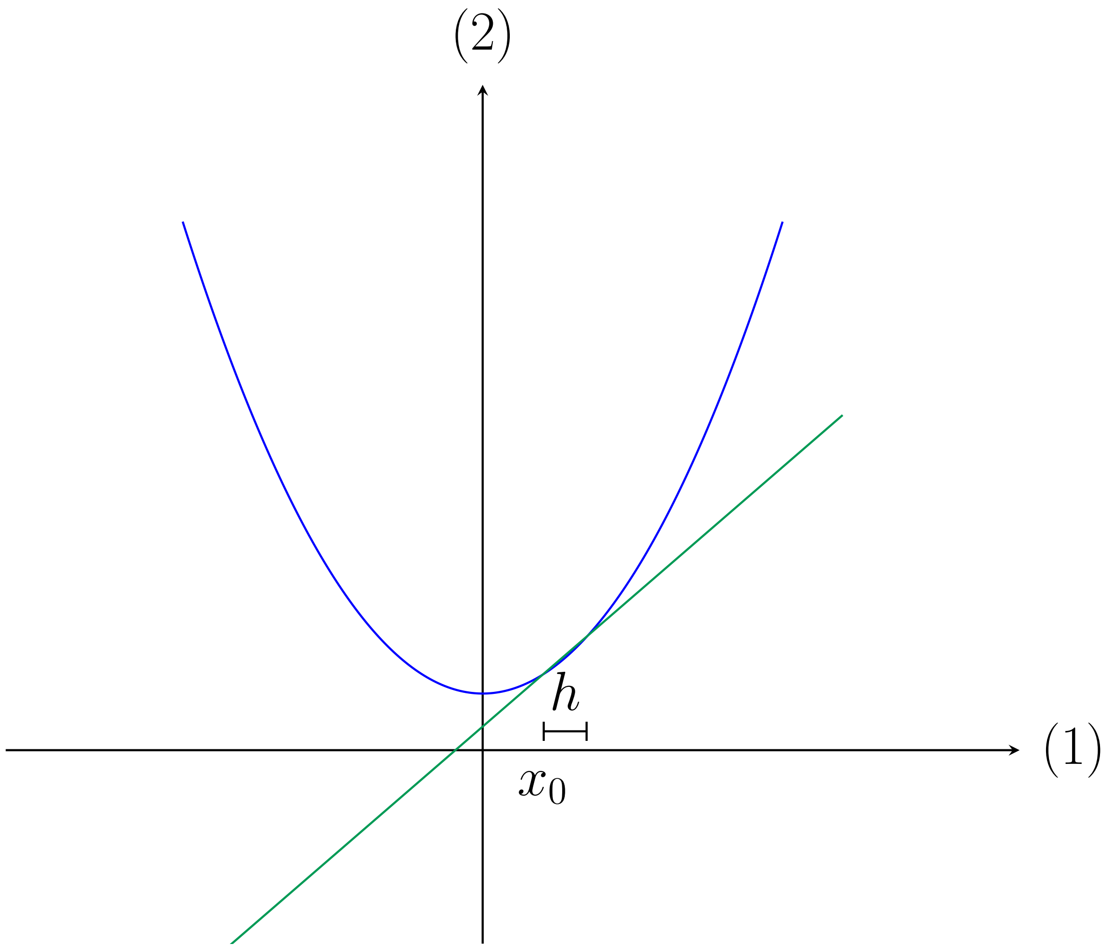

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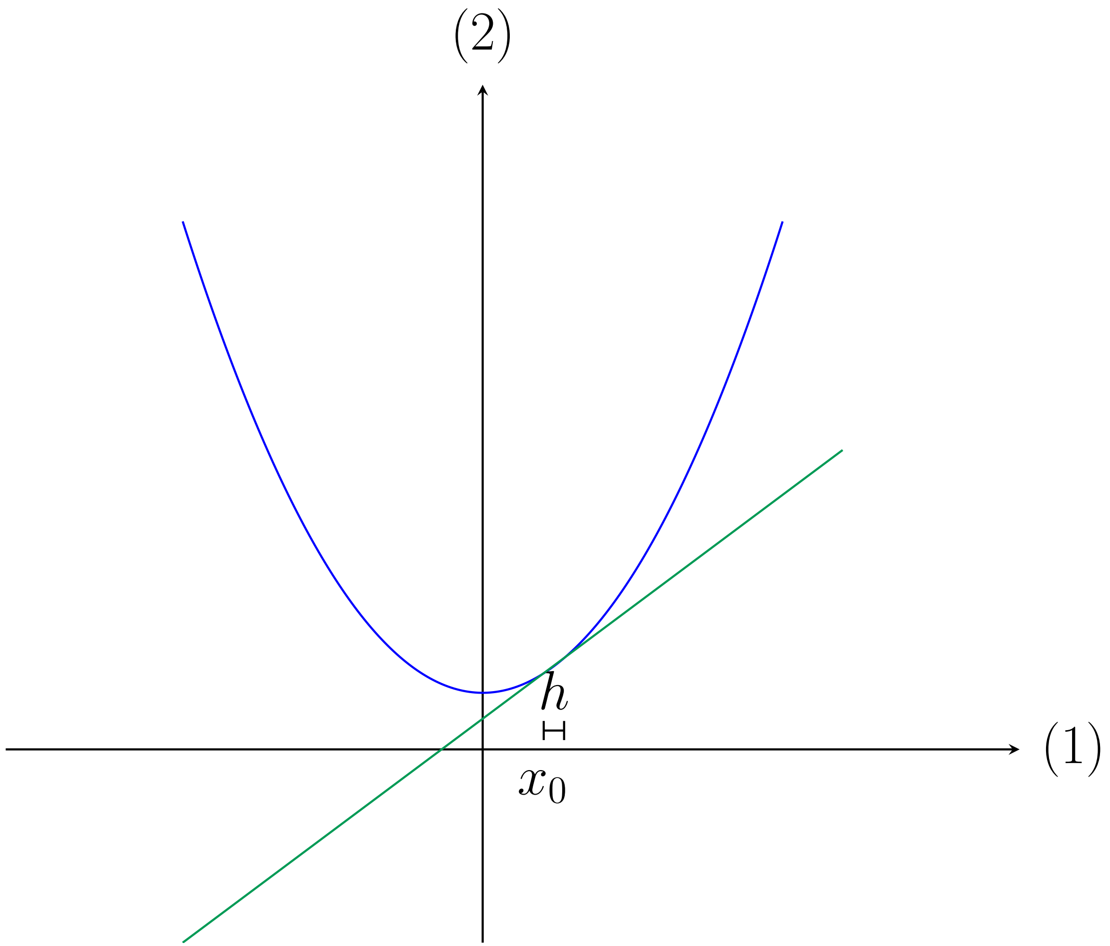

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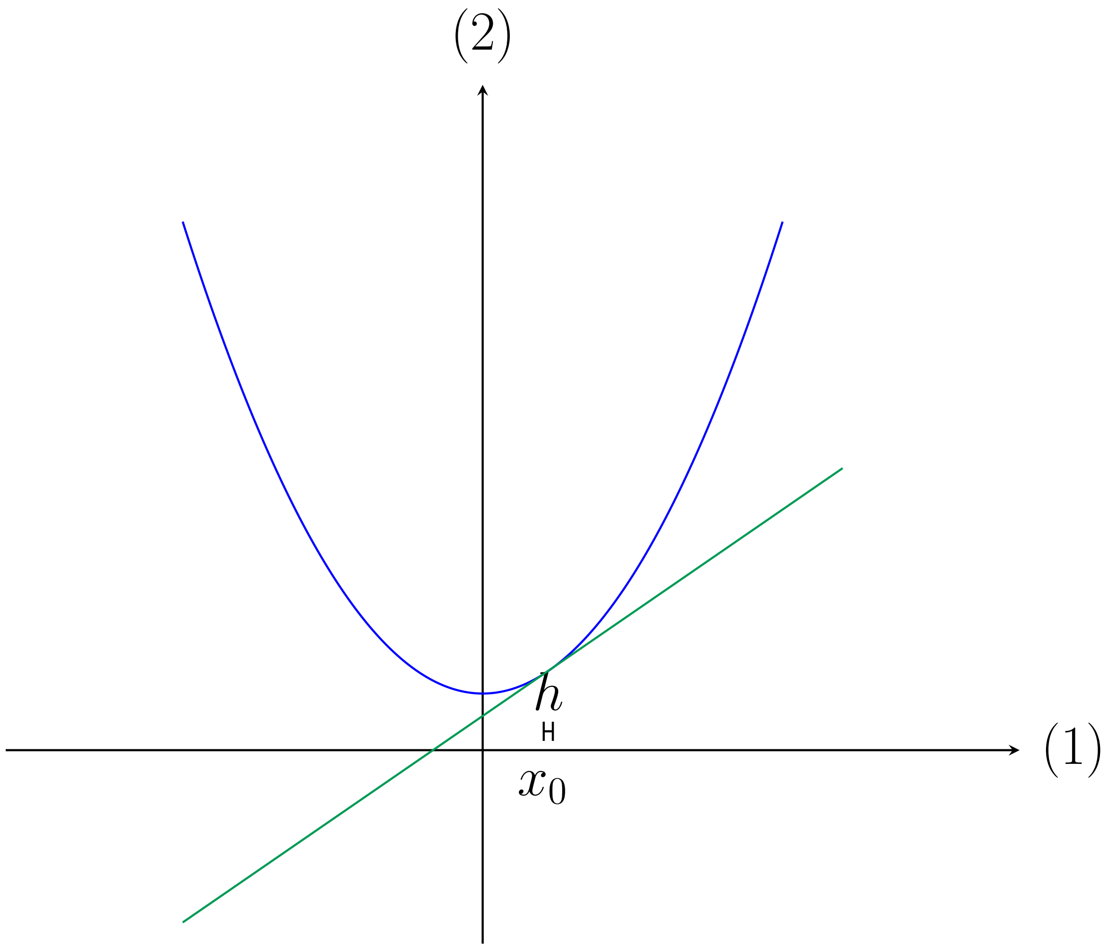

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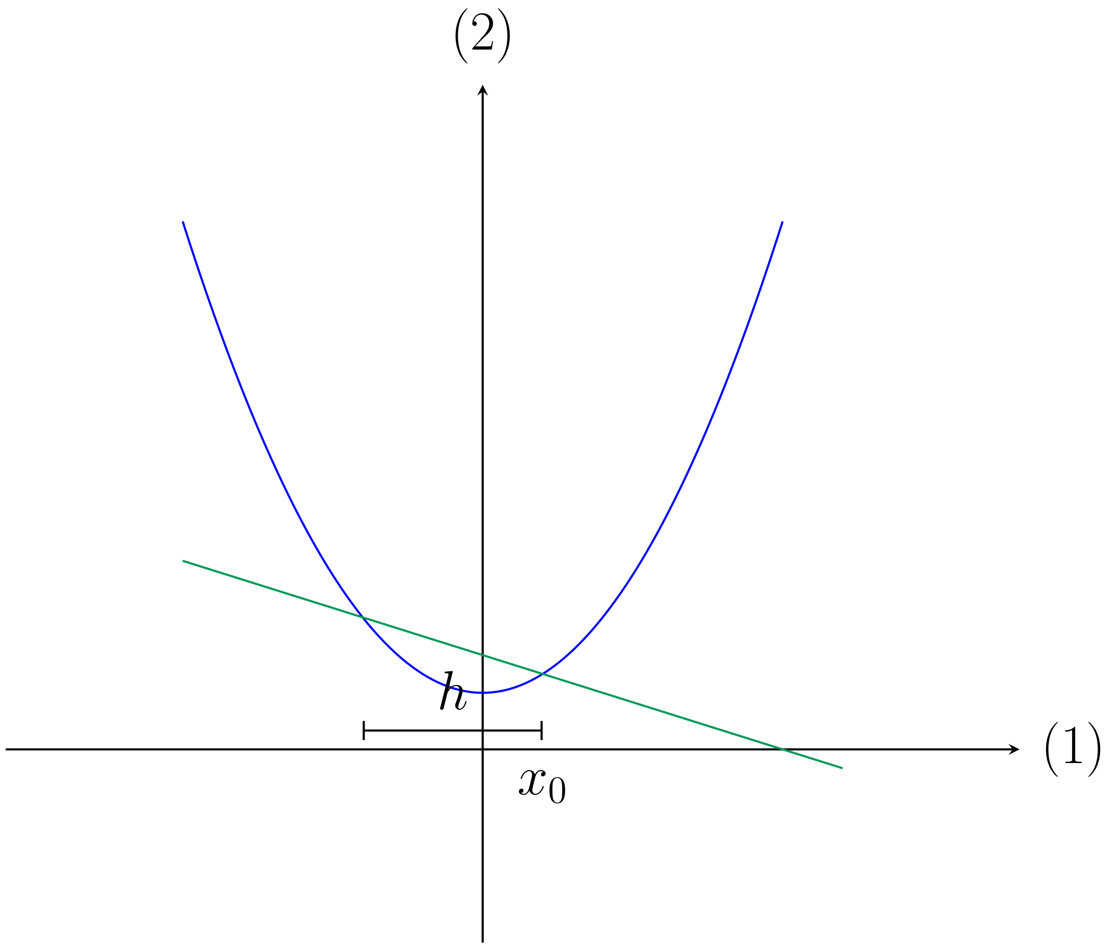

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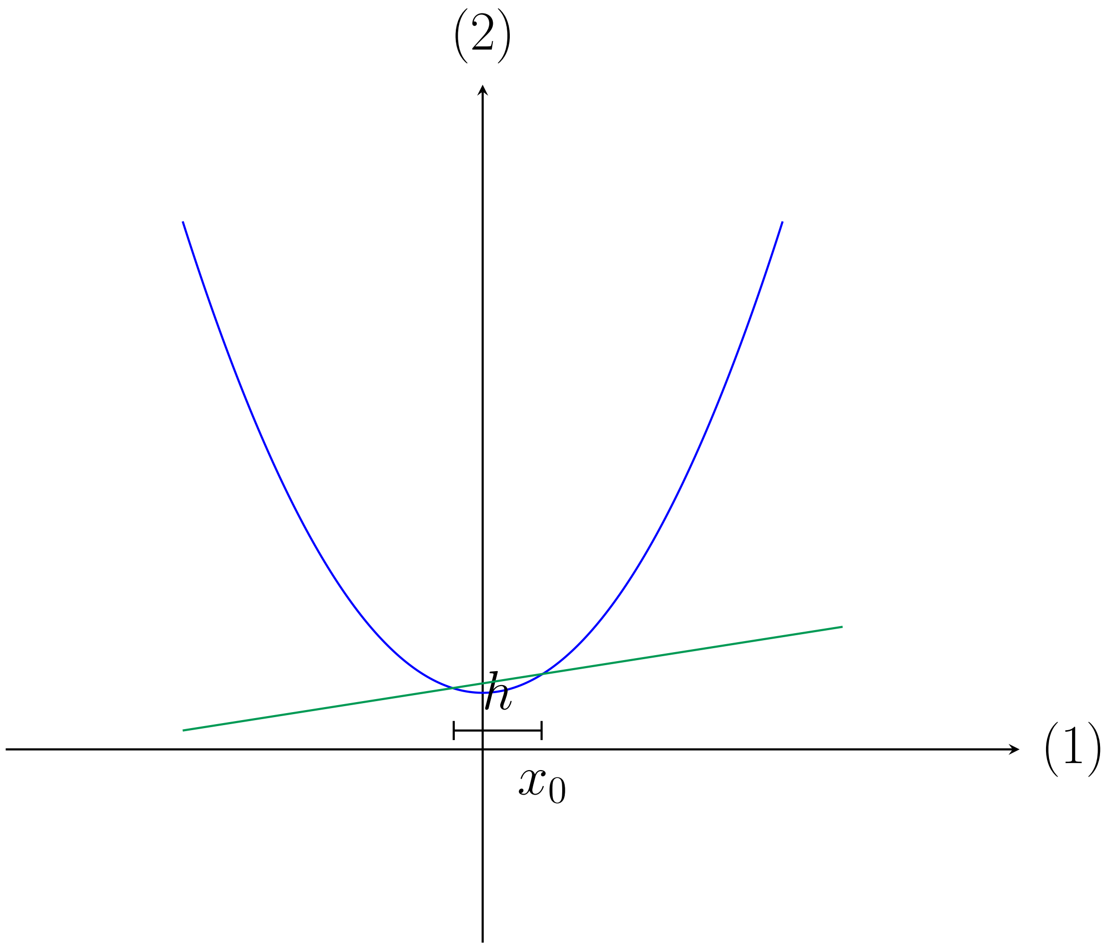

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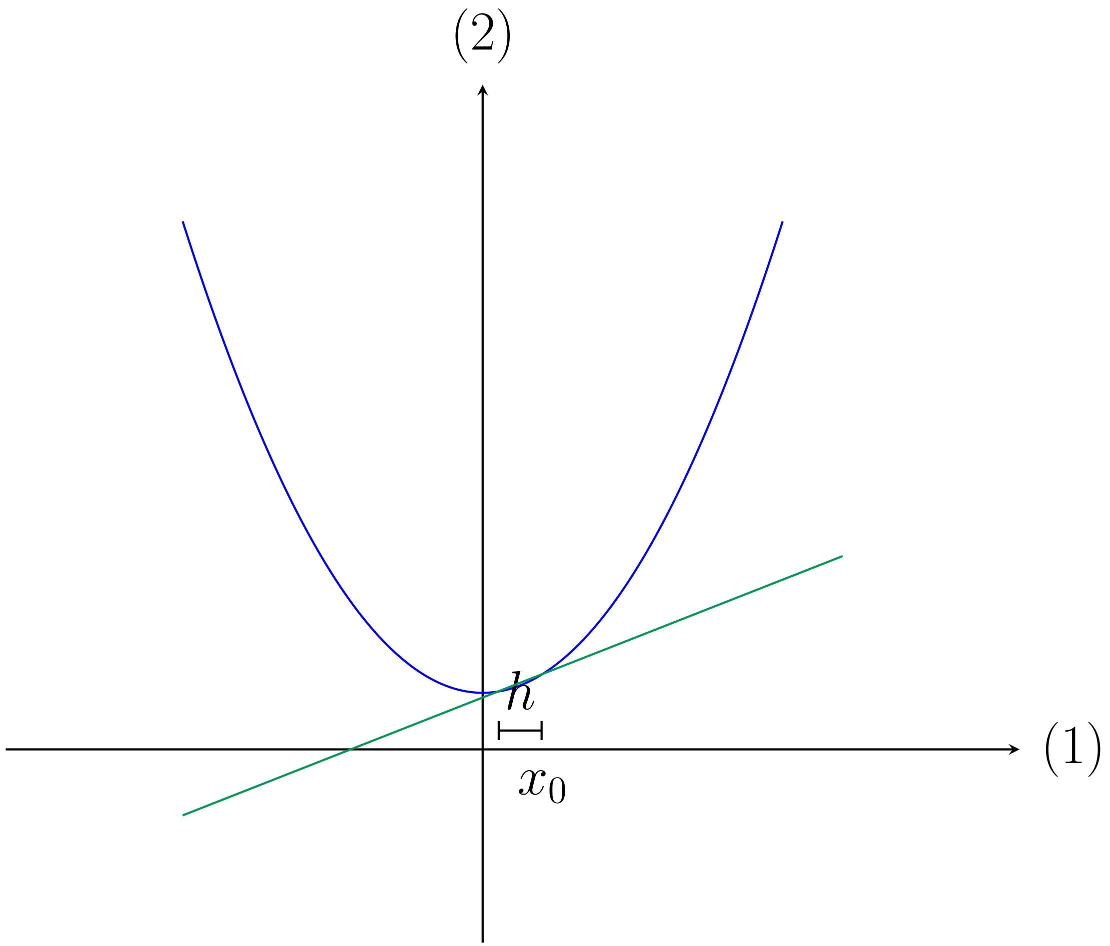

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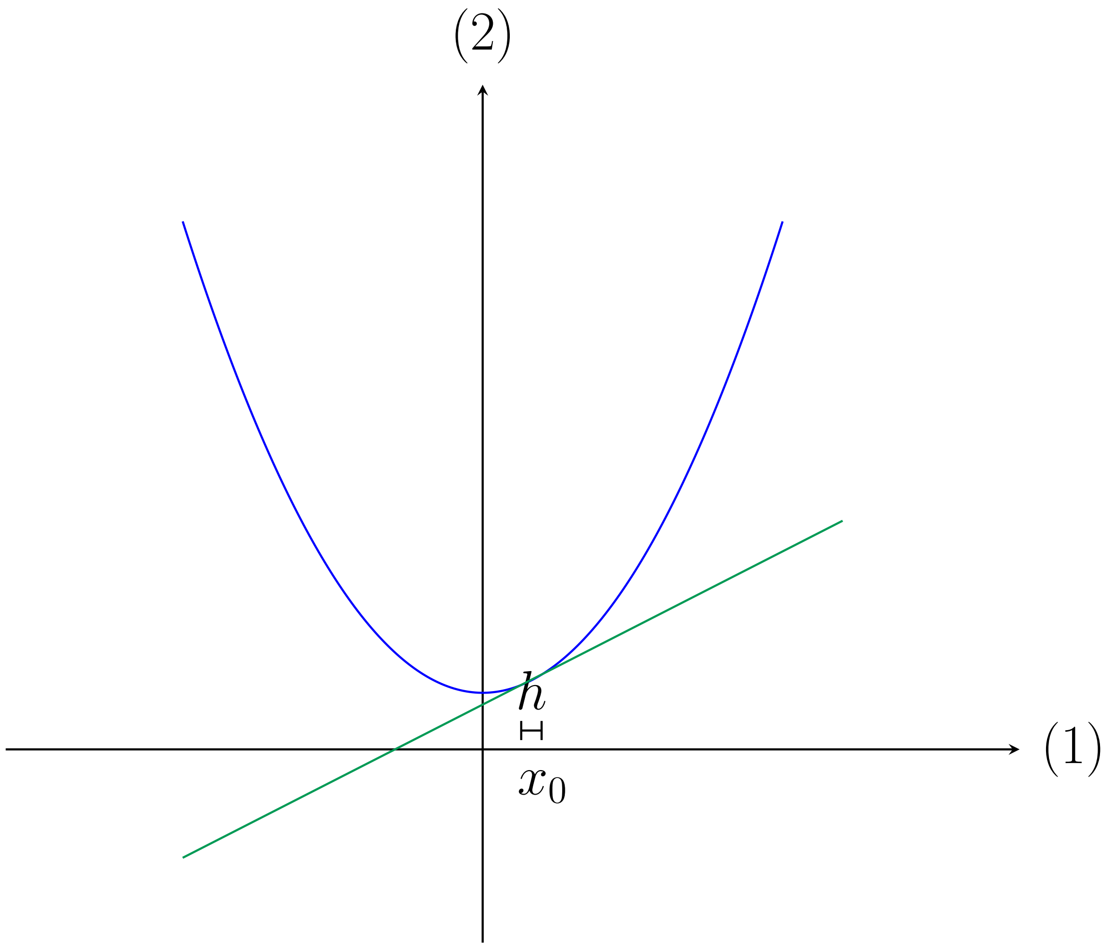

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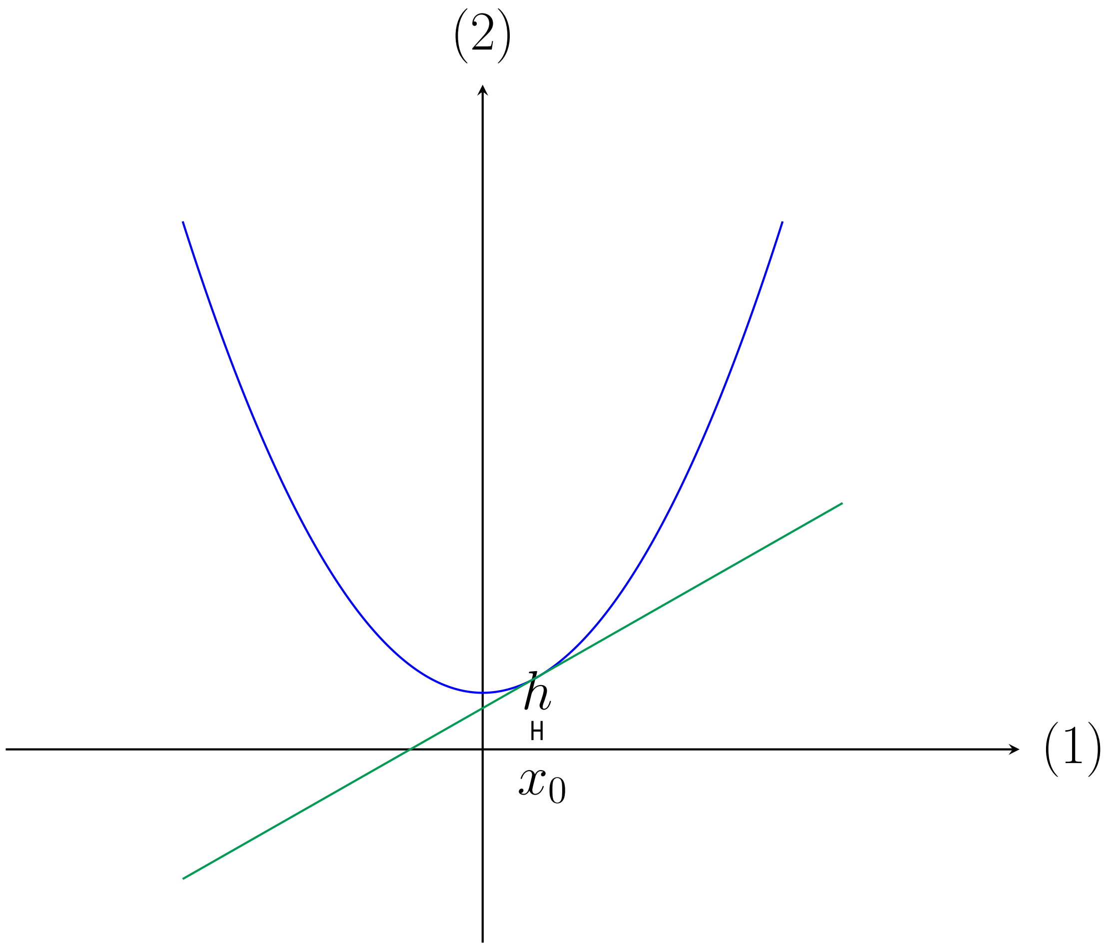

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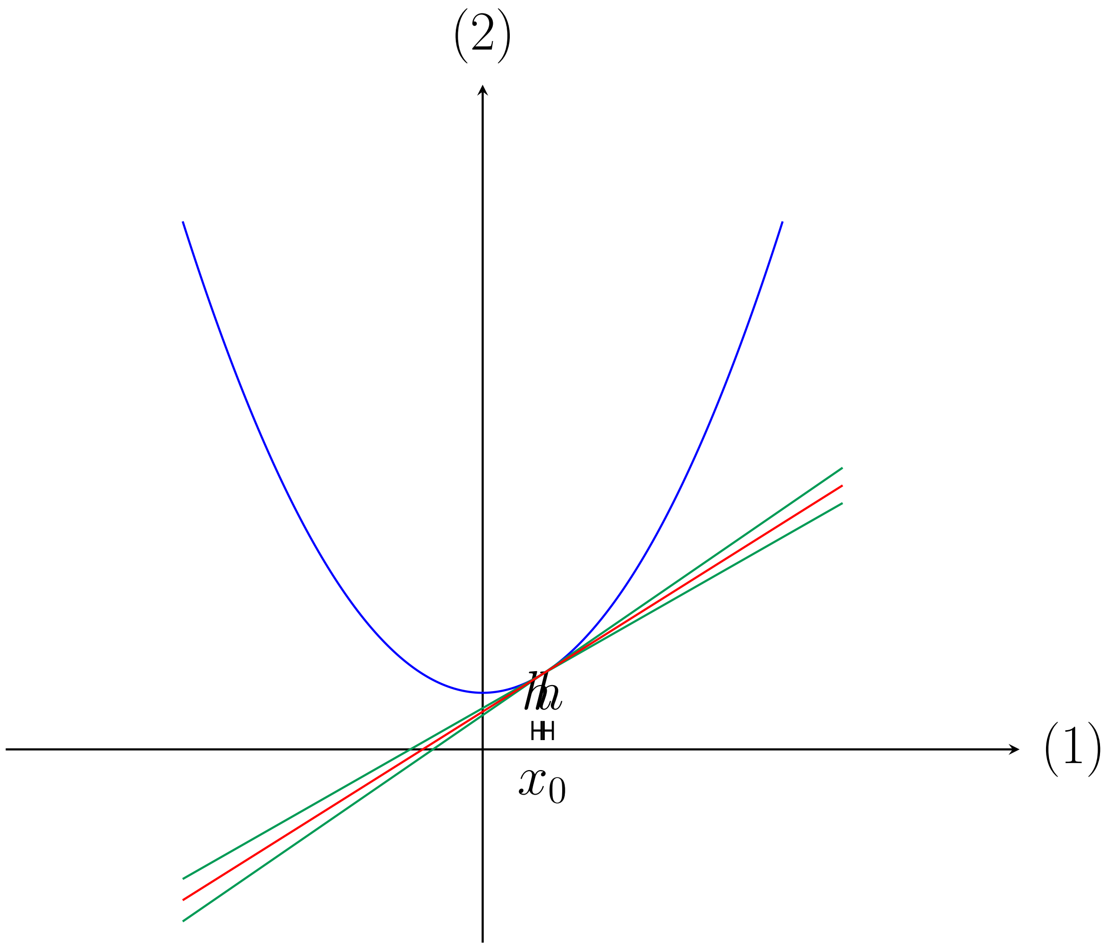

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