Integral med trappstegfunktioner

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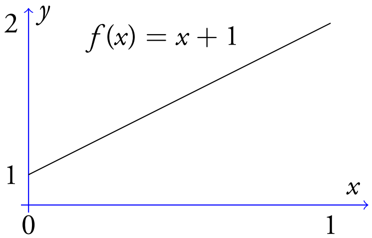

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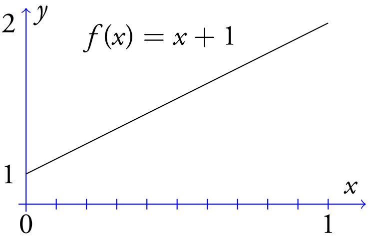

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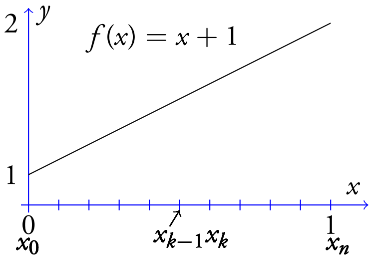

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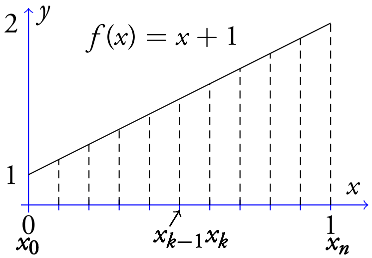

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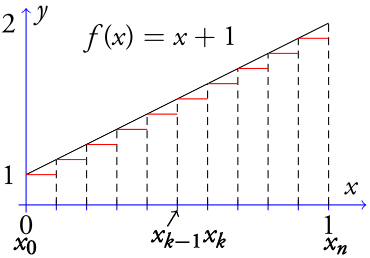

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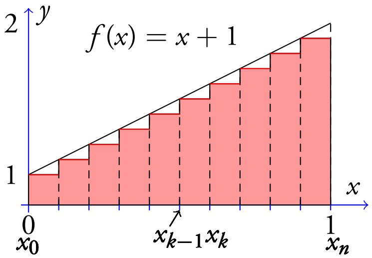

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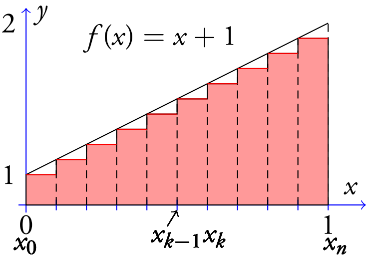

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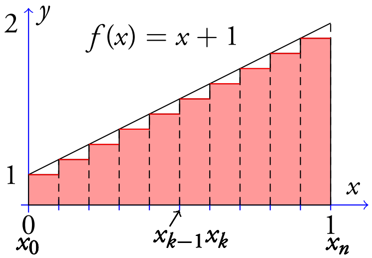

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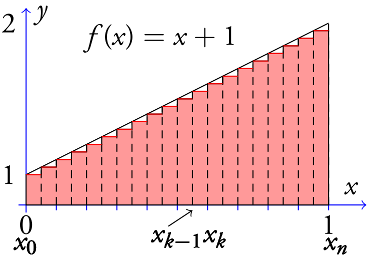

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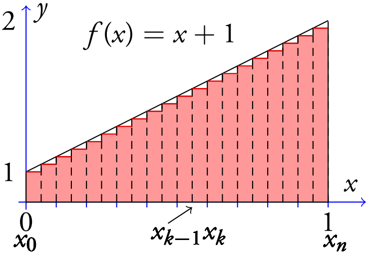

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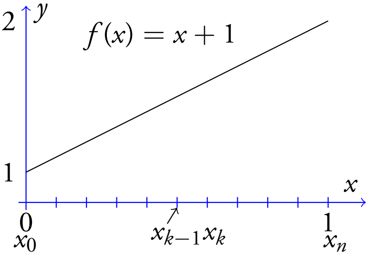

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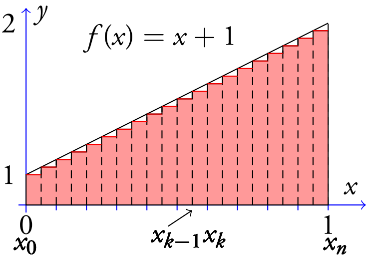

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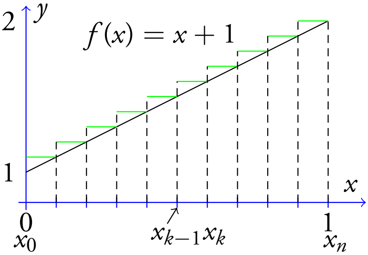

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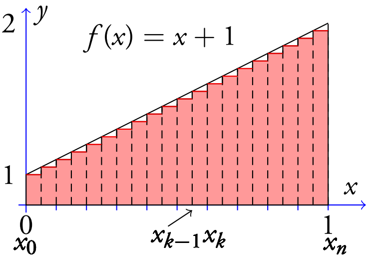

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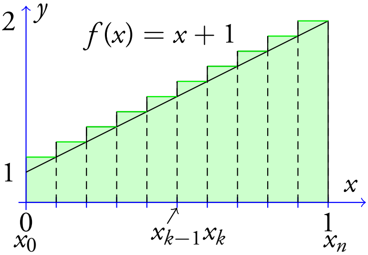

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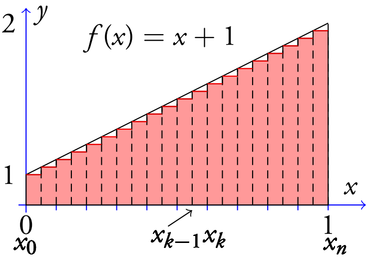

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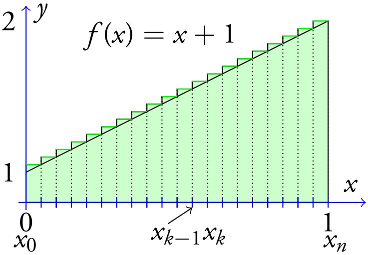

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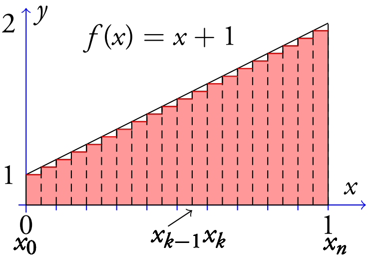

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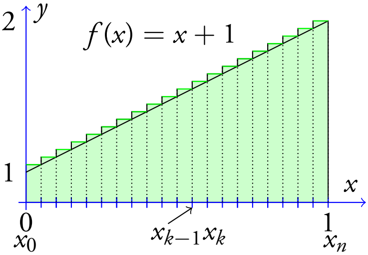

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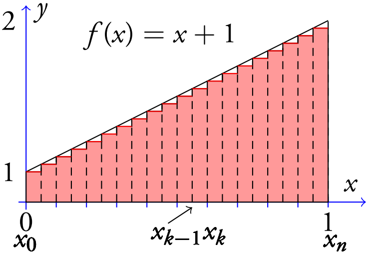

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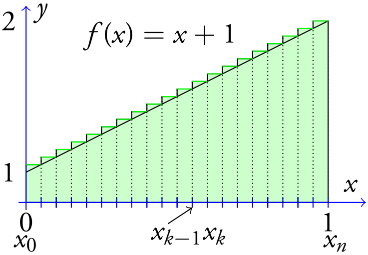

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Integral med variabel övergräns

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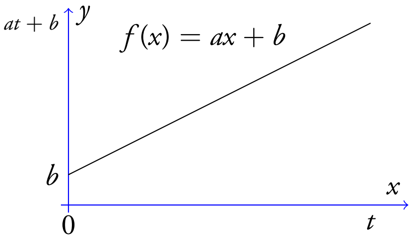

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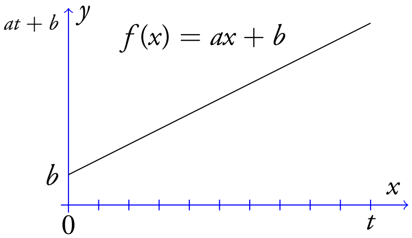

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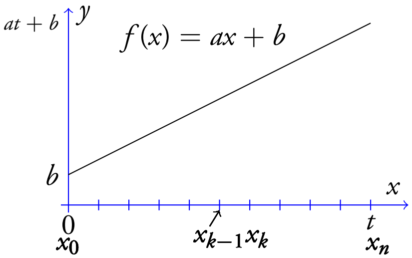

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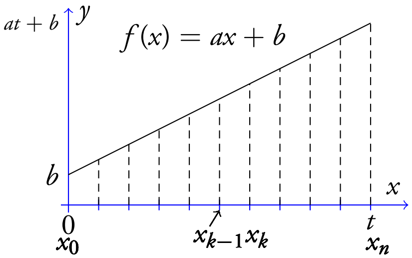

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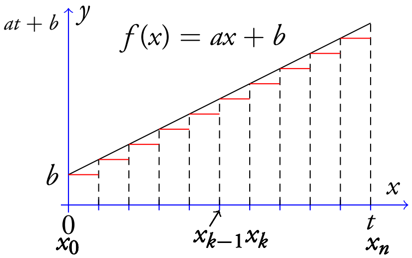

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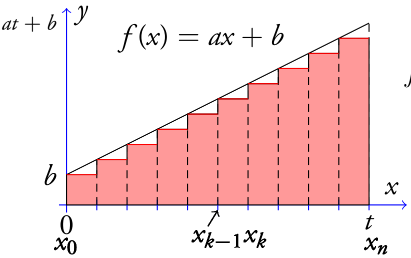

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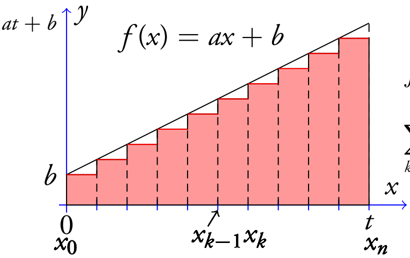

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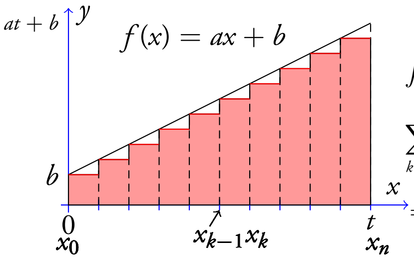

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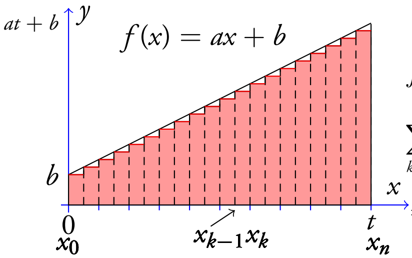

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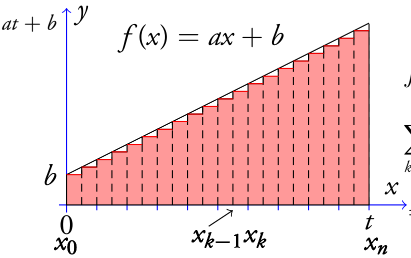

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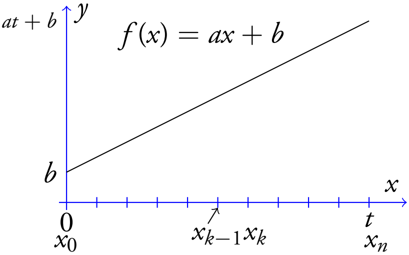

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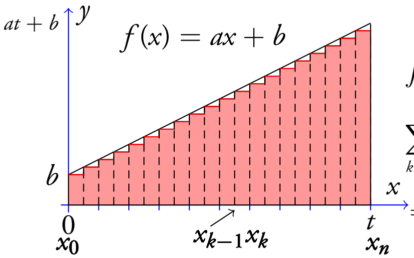

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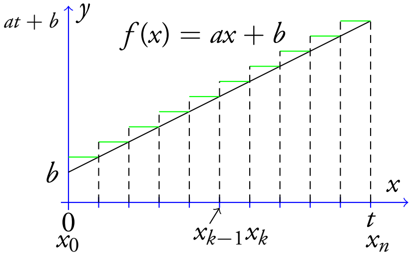

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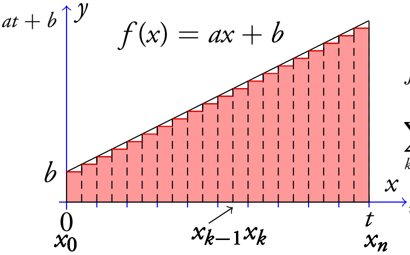

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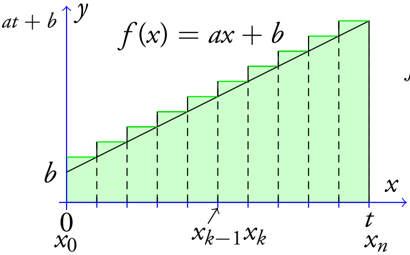

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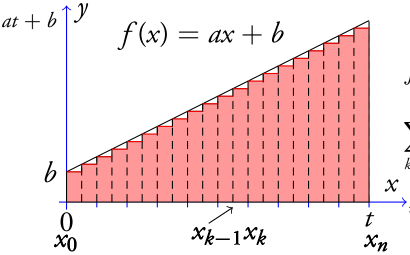

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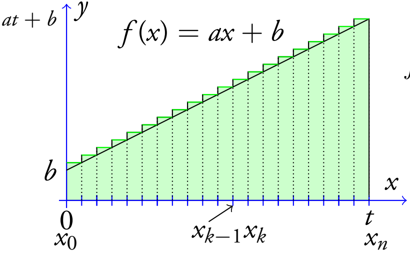

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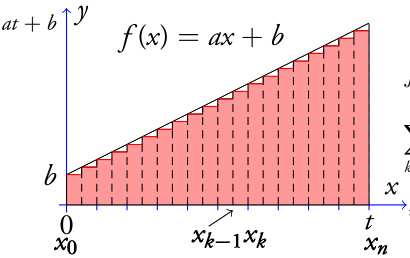

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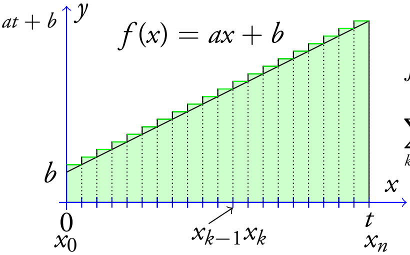

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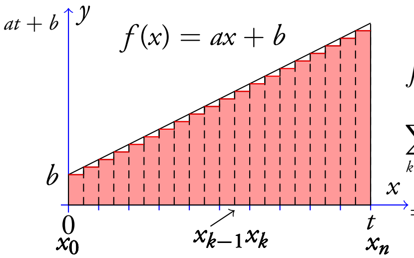

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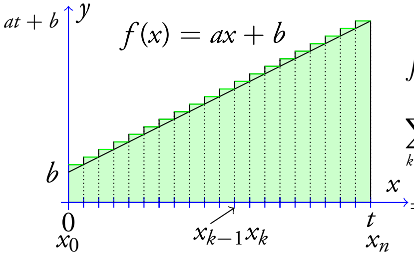

$$\int_0^t \Psi_n(x)dx = \sum_{k=1}^{n} f(x_k)(x_k - x_{k-1}) =$$

$$\sum_{k=1}^{n}(a\frac{kt}{n}+b)(\frac{kt}{n}-\frac{(k-1)t}{n}) = \sum_{k=1}^{n}(\frac{akt}{n}+b)(\frac{t}{n})$$

$$= \frac{at^2}{2}\frac{n(n+1)}{n^2} + bt$$