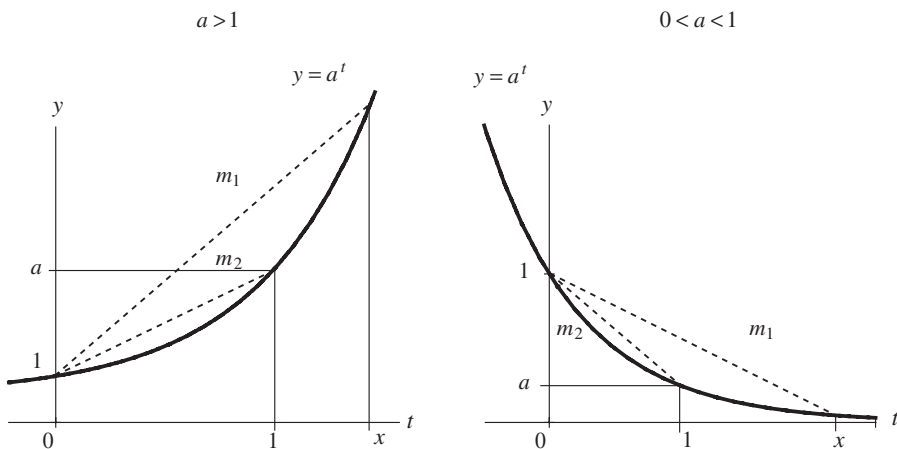


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## Proof Without Words: Bernoulli's Inequality

If  $a > 0$ ,  $a \neq 1$ , and  $x > 1$ , then  $a^x - 1 > x(a - 1)$ .



$$m_1 > m_2 \Rightarrow \frac{a^x - 1}{x} > a - 1.$$

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