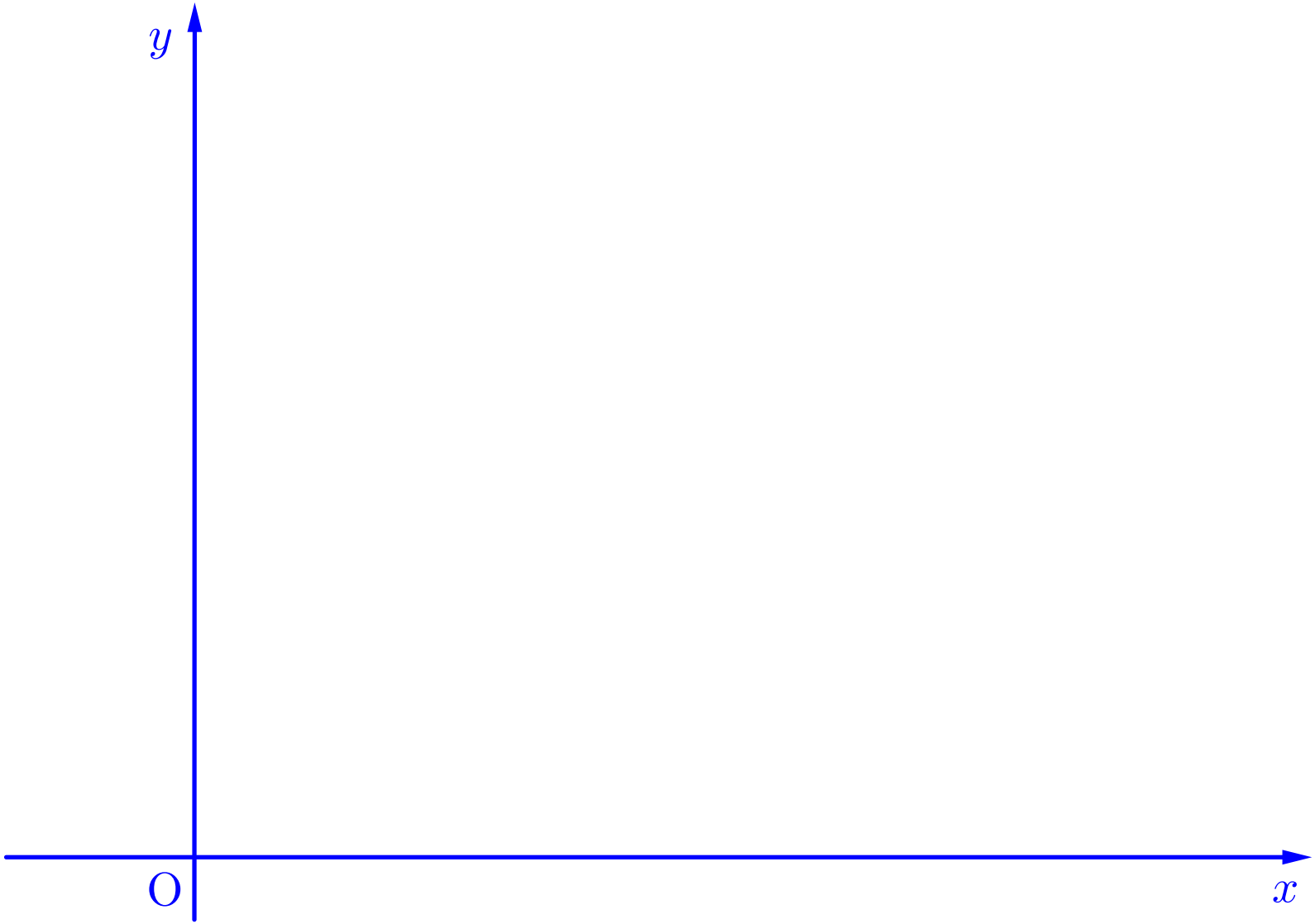
정규분포
(Normal Distribution)

Normal Distribution

Start End

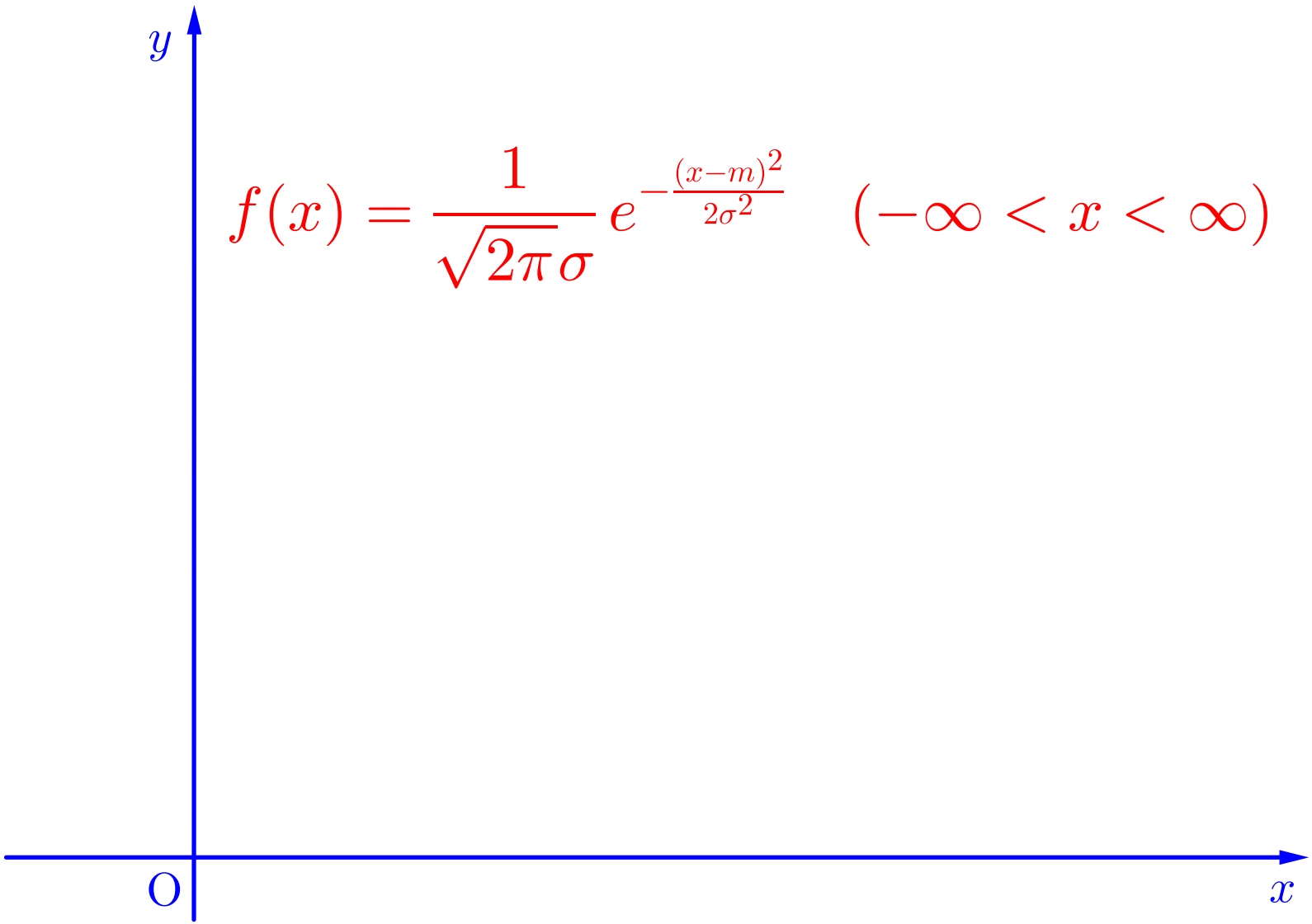
Normal Distribution

Start End



Normal Distribution

Start End



$$f(x) = \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{(x-m)^2}{2\sigma^2}} \quad (-\infty < x < \infty)$$

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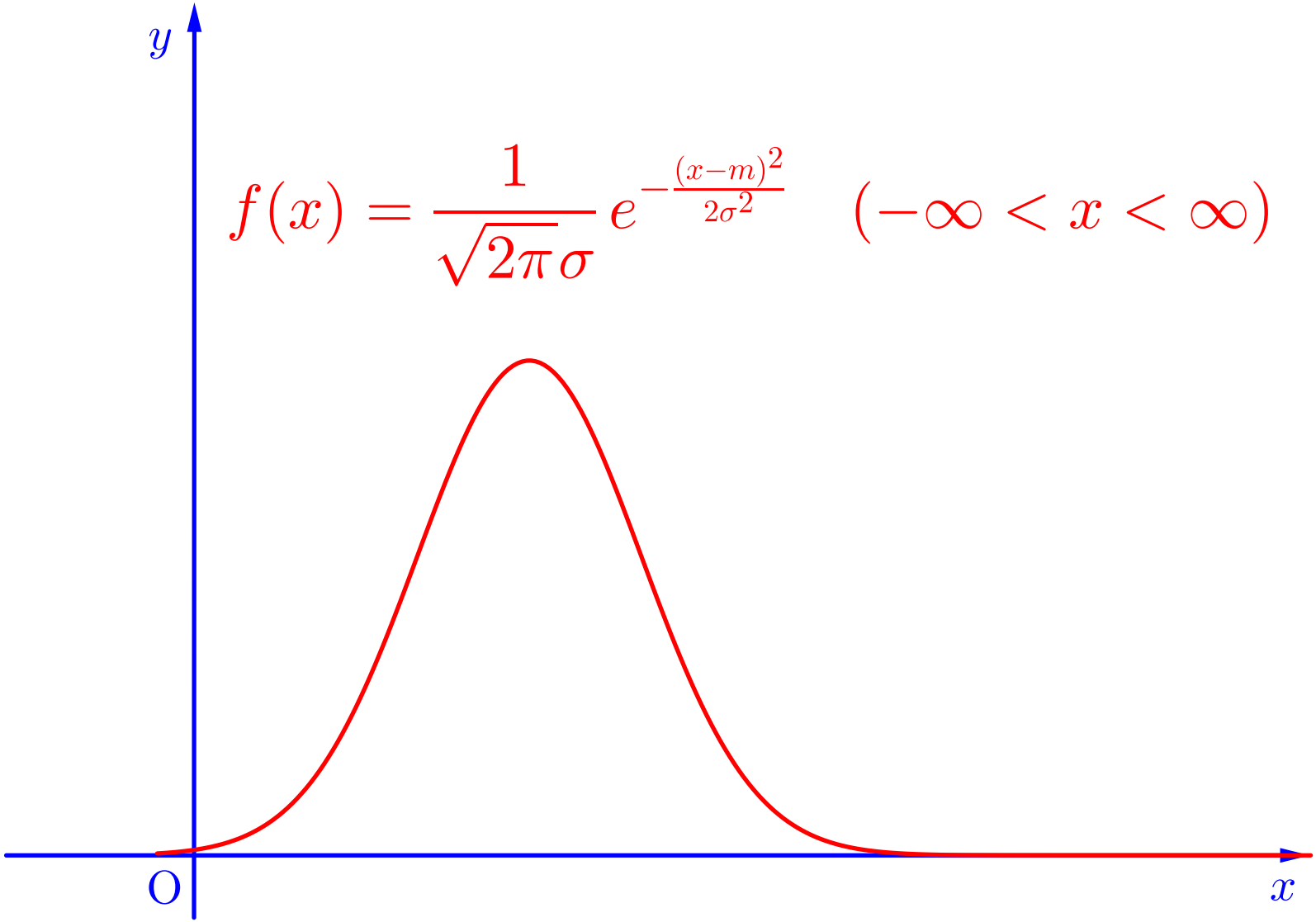

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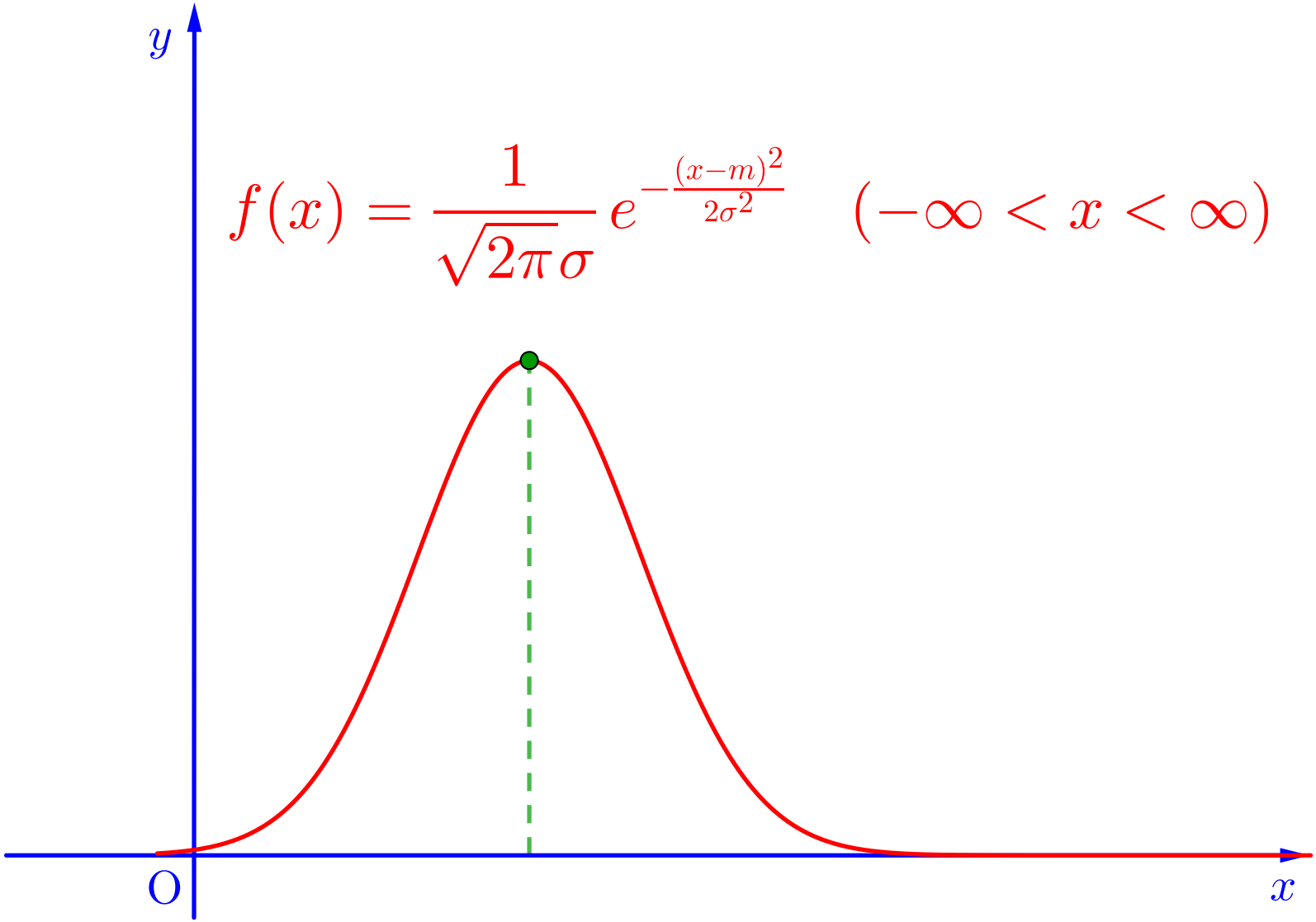

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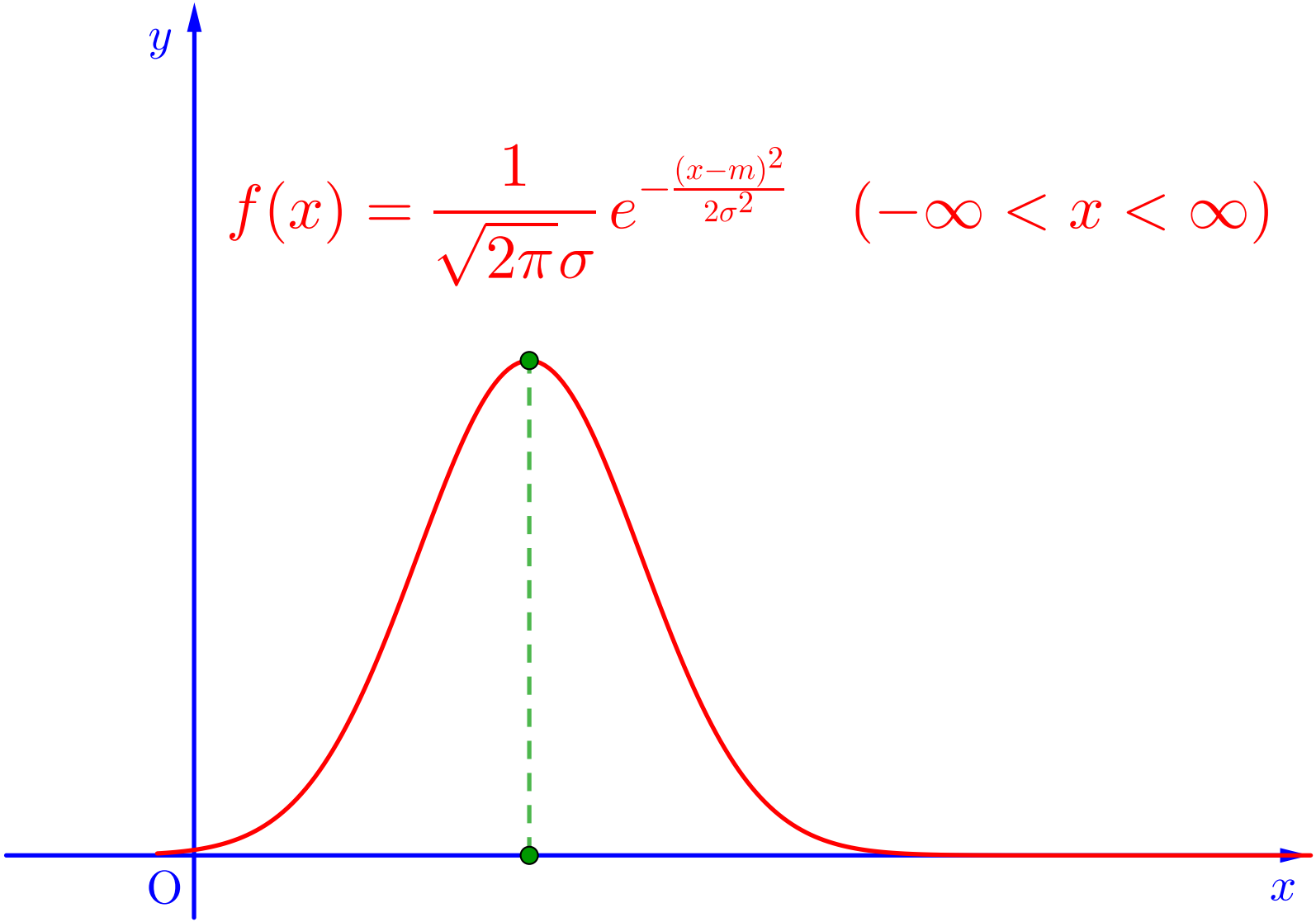

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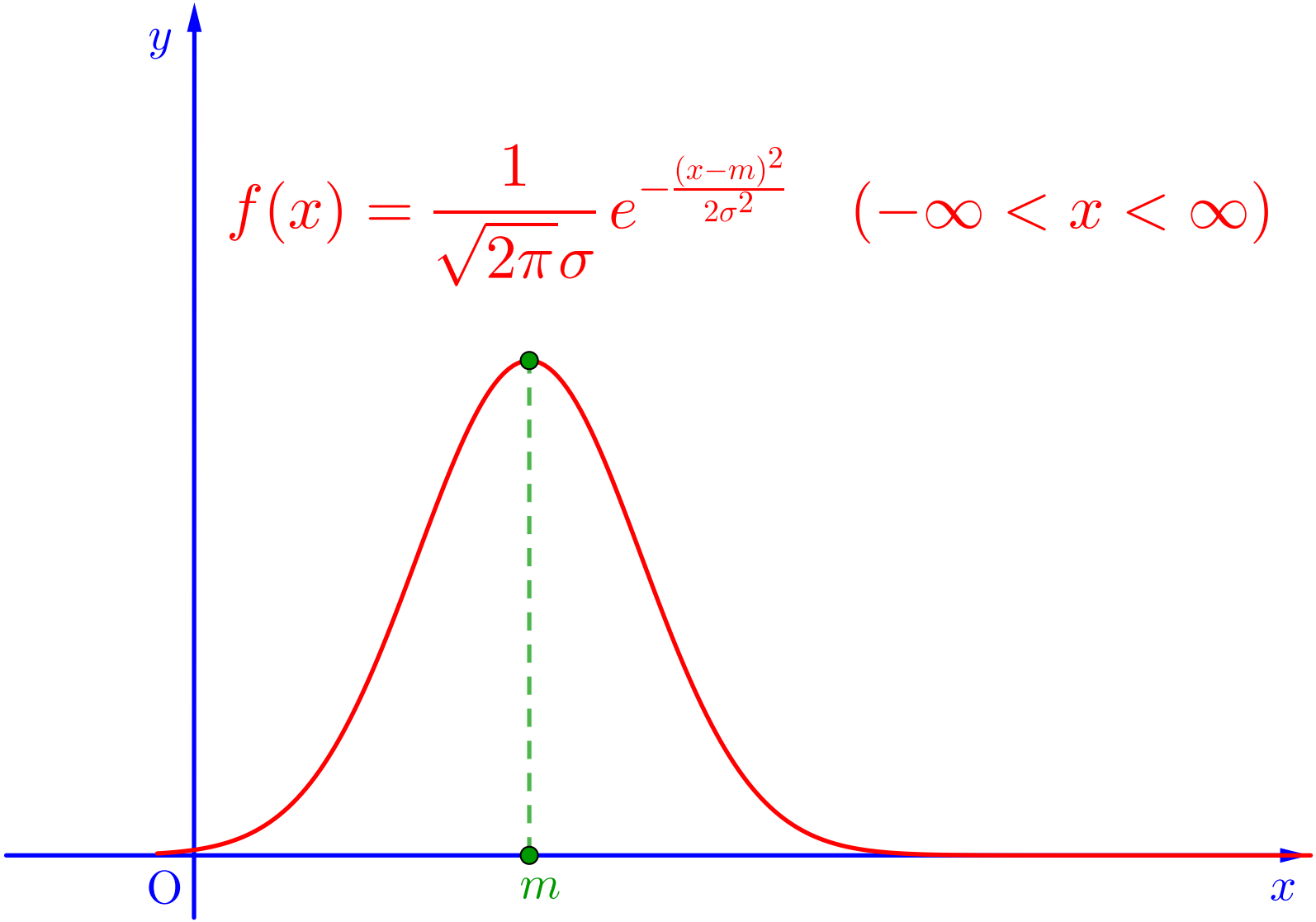

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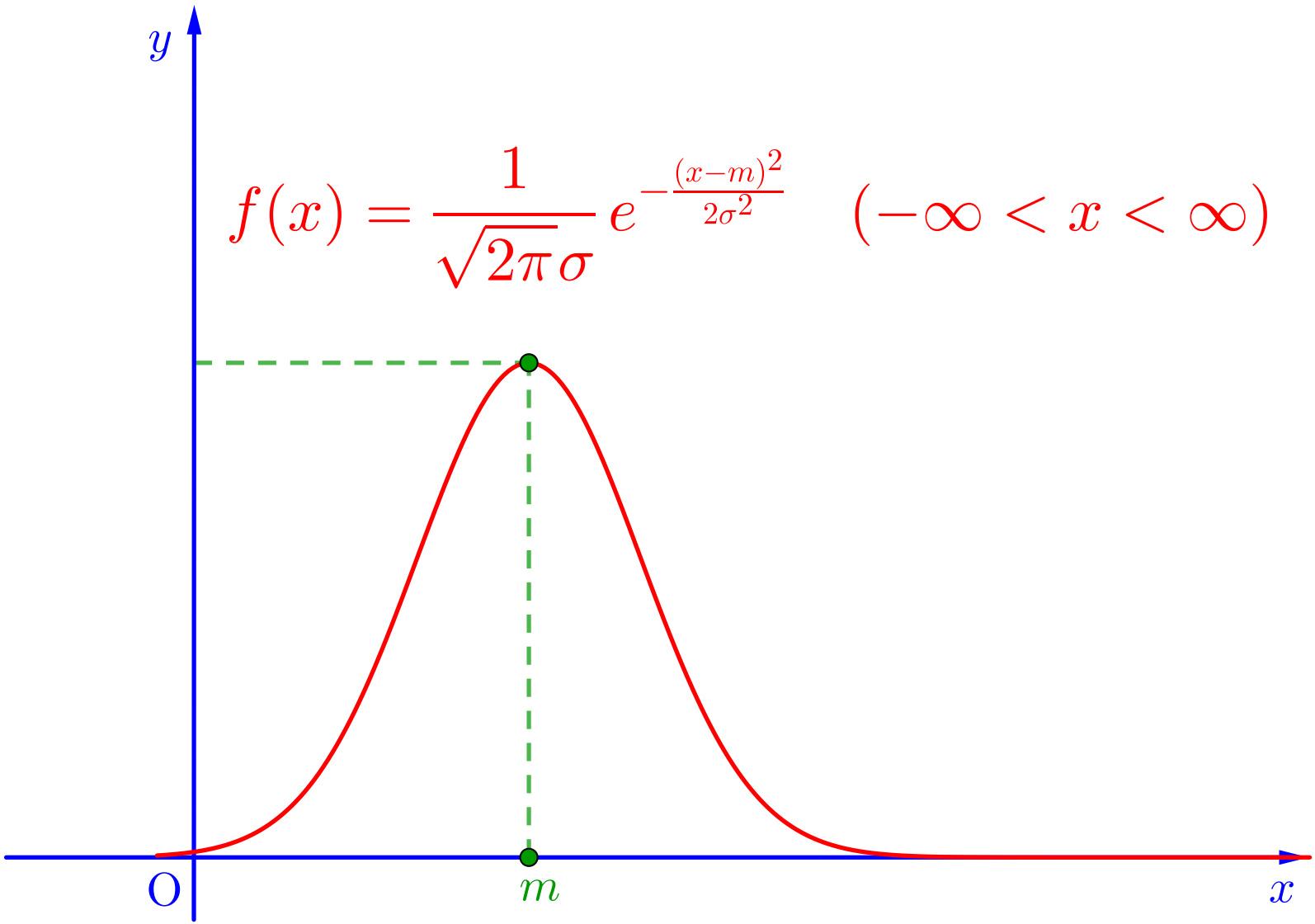

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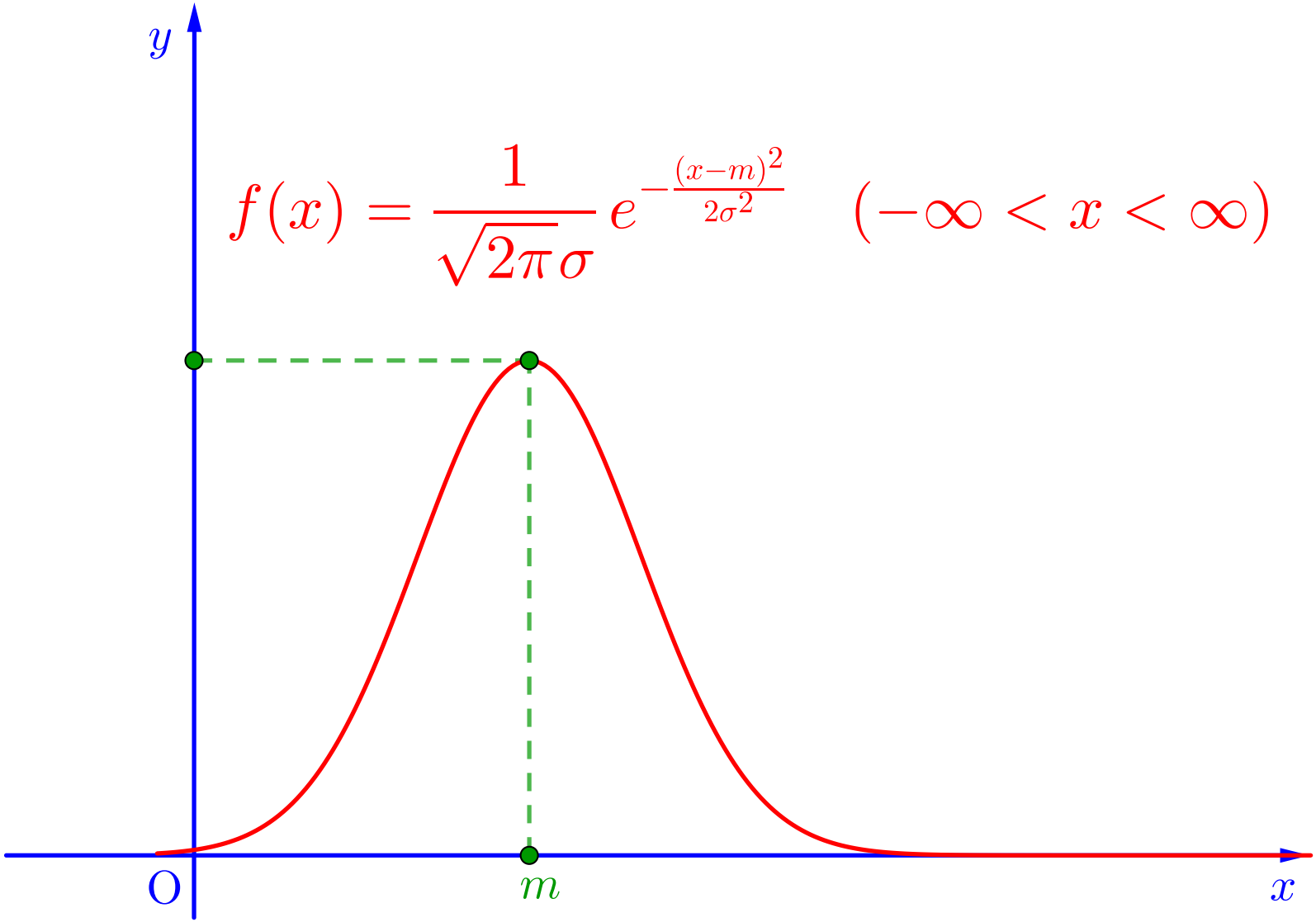

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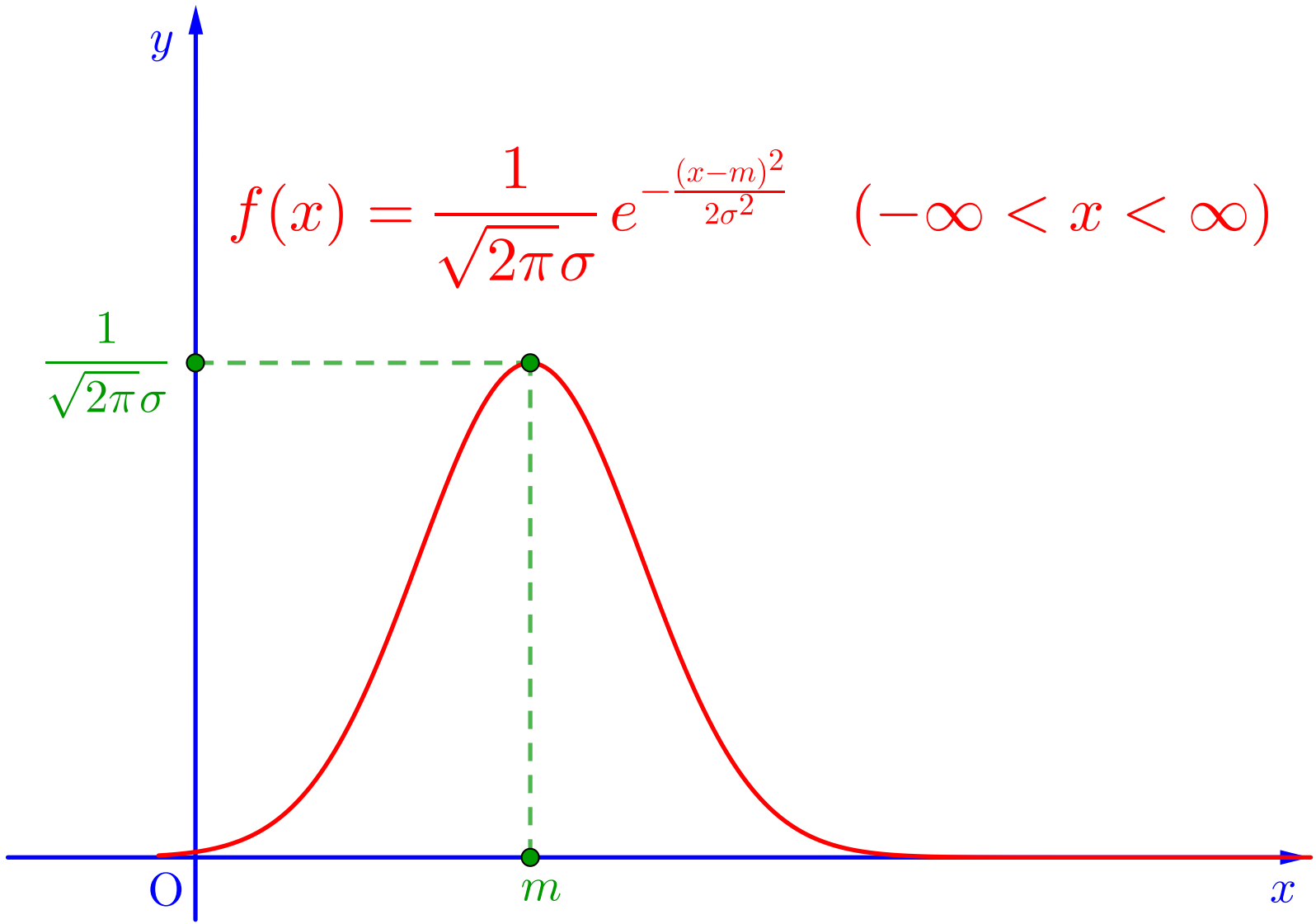

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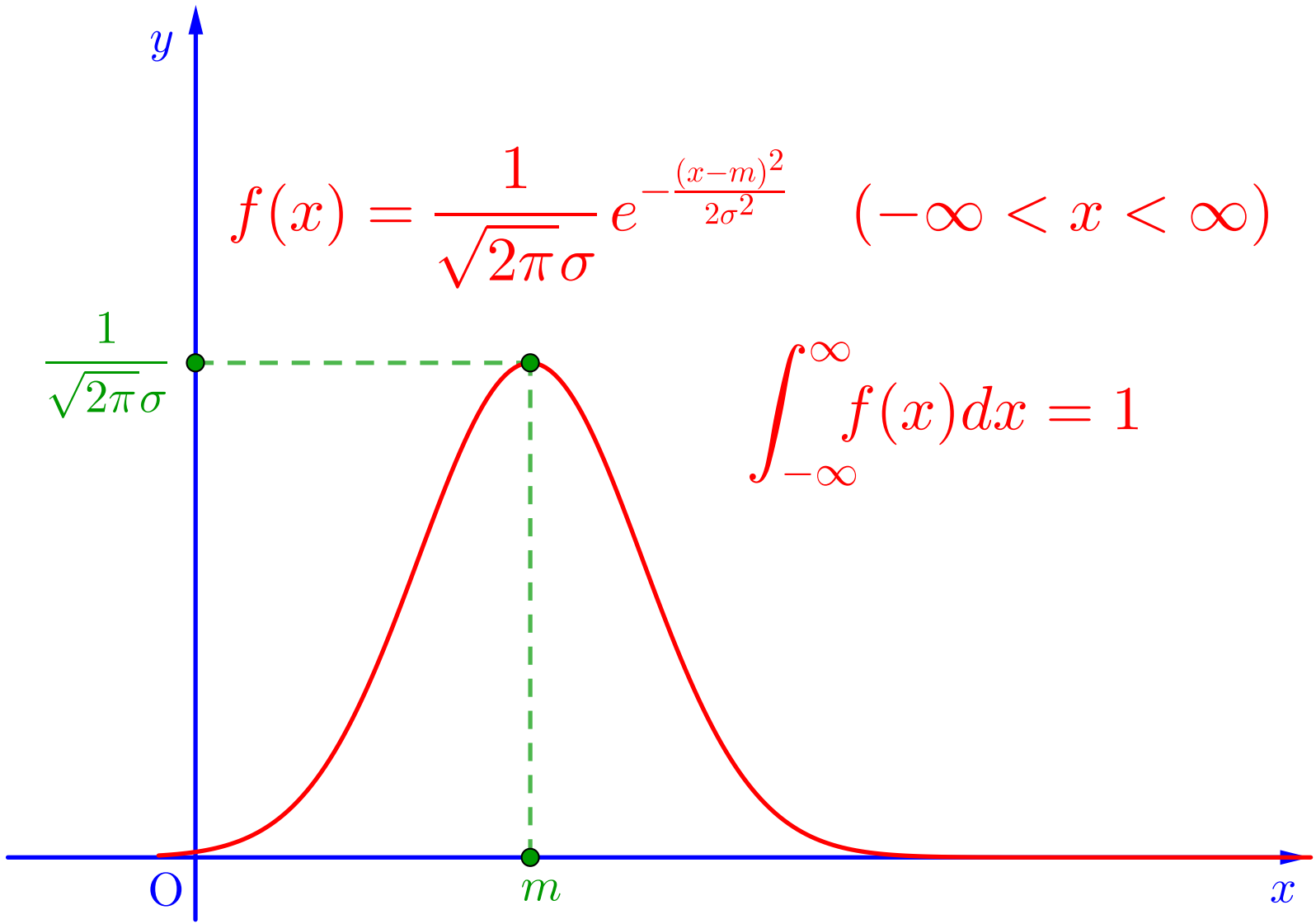

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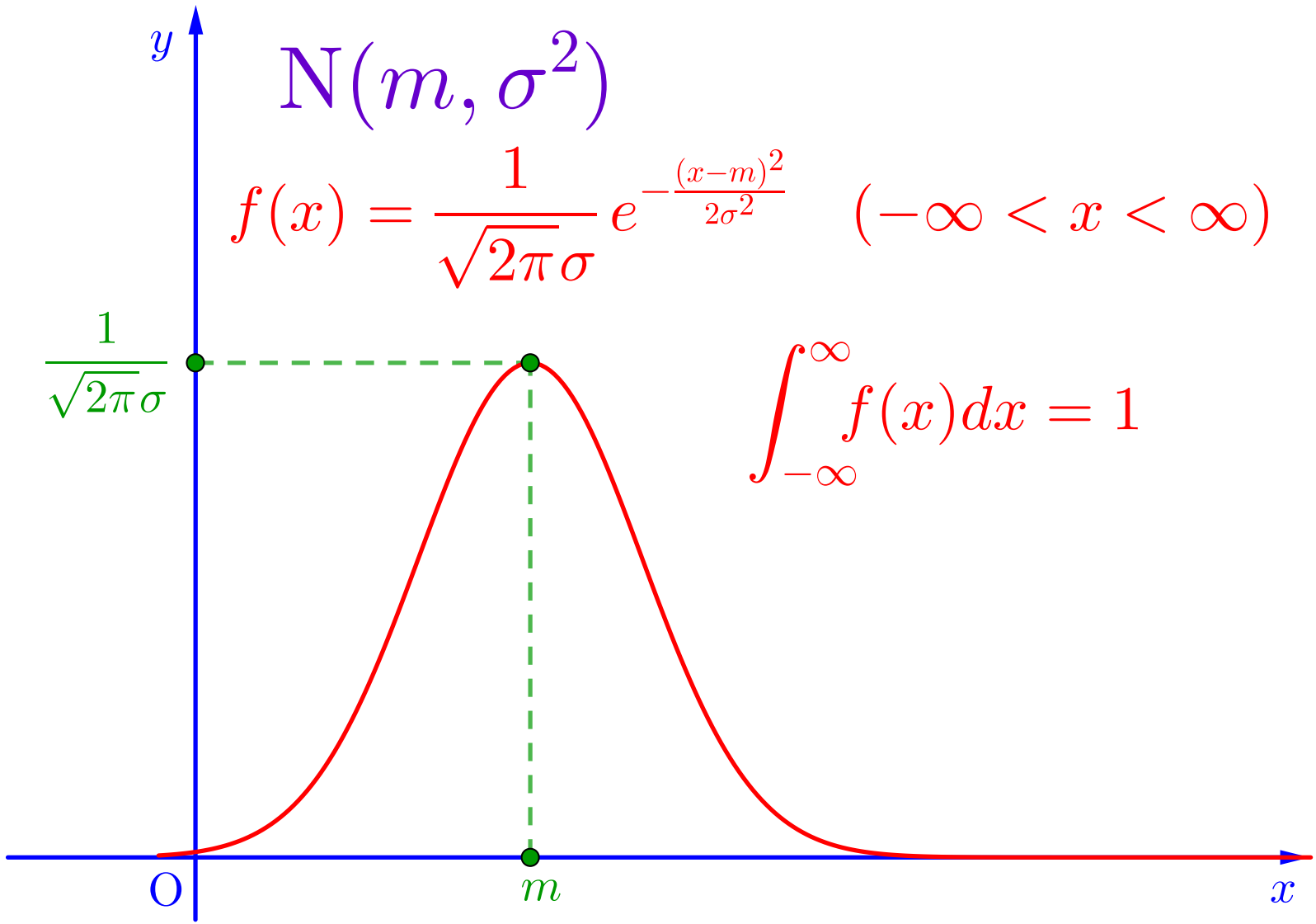
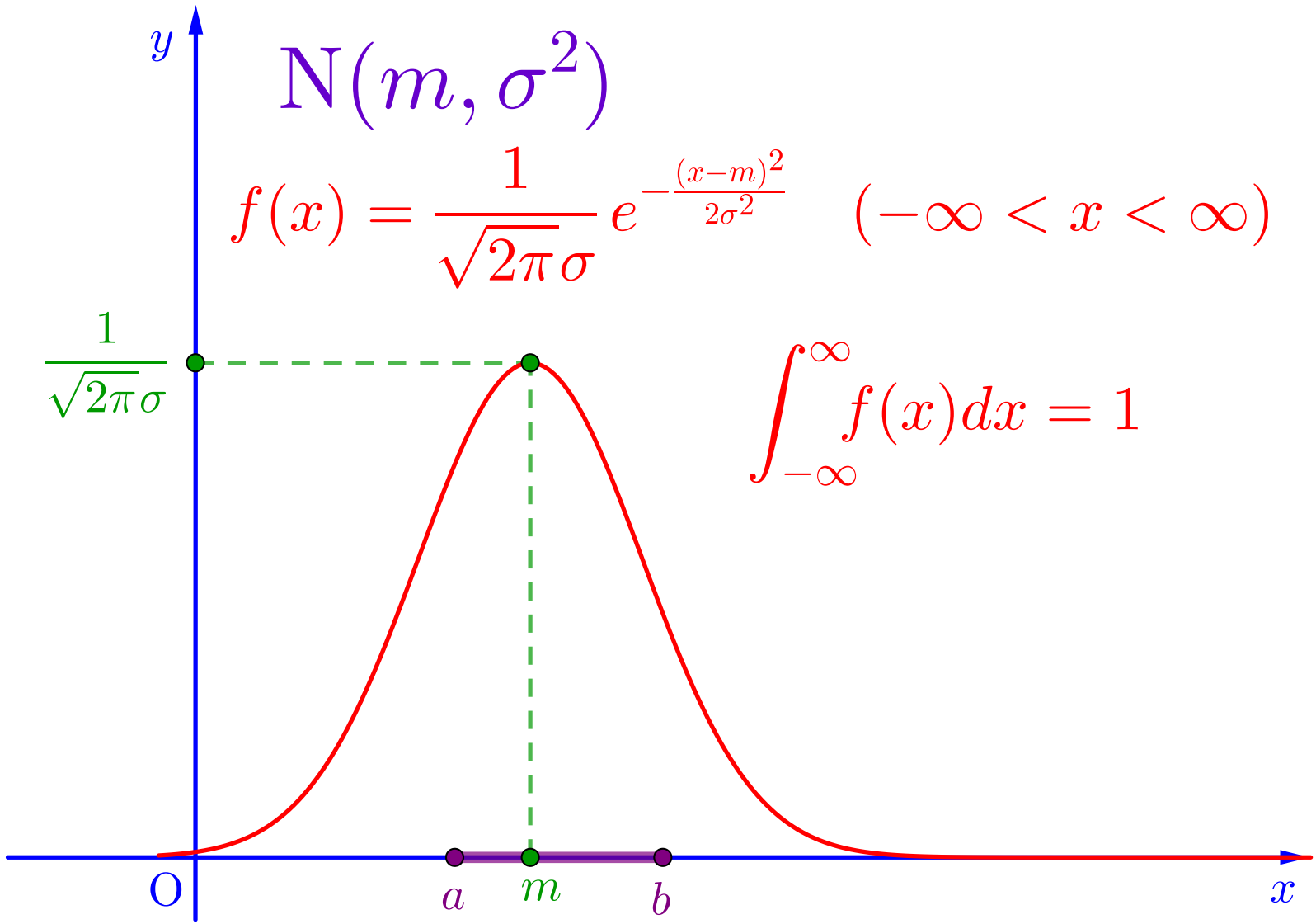

y
$\mathrm{N}(m, \sigma^2)$
$f(x) = \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{(x-m)^2}{2\sigma^2}} \quad (-\infty < x < \infty)$
$\frac{1}{\sqrt{2\pi}\sigma}$
$\int_{-\infty}^{\infty} f(x)dx = 1$
O
m
x

Start End


y
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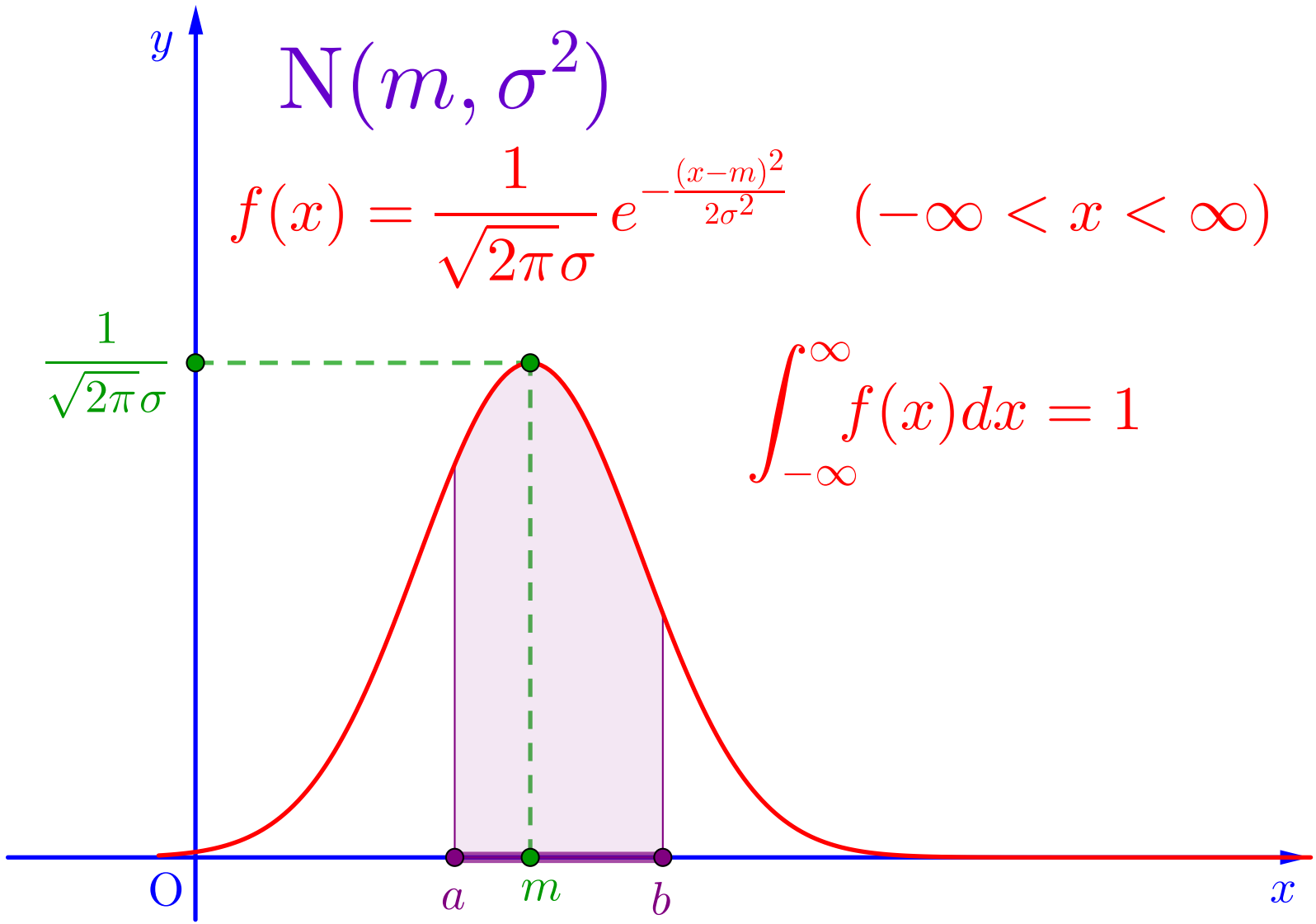
$\frac{1}{\sqrt{2\pi}\sigma}$
$\int_{-\infty}^{\infty} f(x)dx = 1$
O
a
m
b
x

Start End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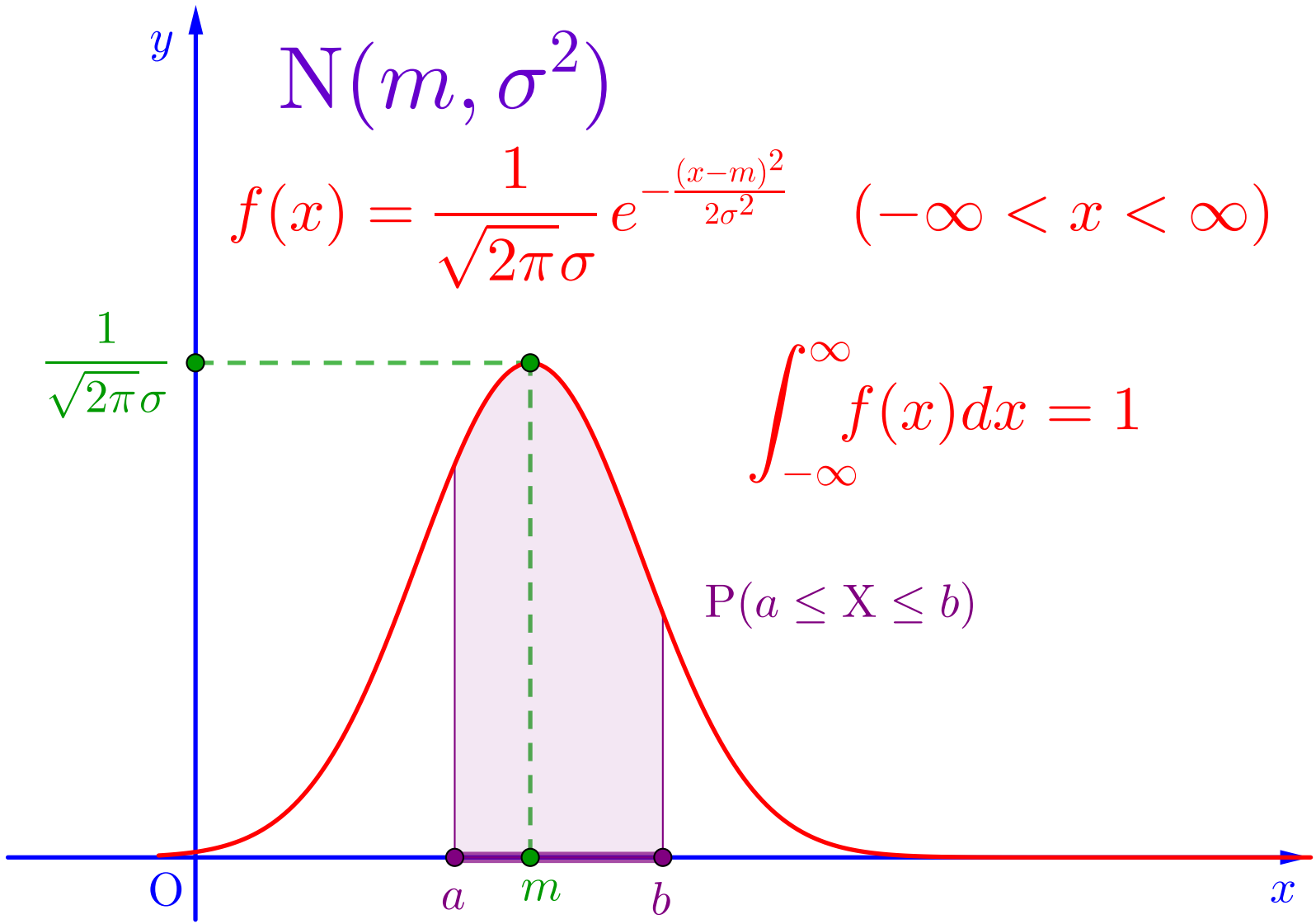
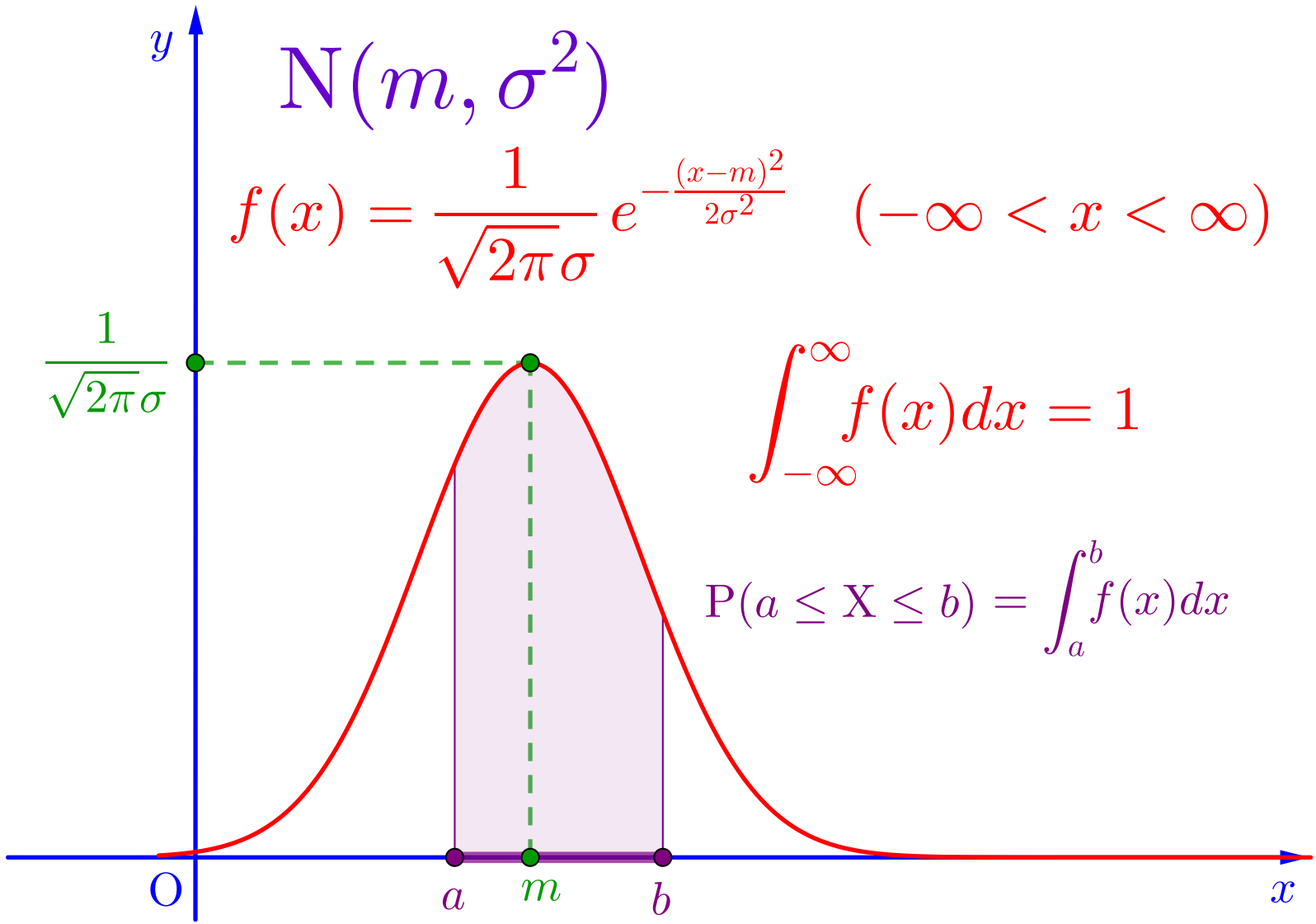
$\frac{1}{\sqrt{2\pi}\sigma}$
$\int_{-\infty}^{\infty} f(x)dx = 1$
O
a
m
b
x

Start End


y
$\mathrm{N}(m, \sigma^2)$
$f(x) = \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{(x-m)^2}{2\sigma^2}} \quad (-\infty < x < \infty)$
$\frac{1}{\sqrt{2\pi}\sigma}$
$\int_{-\infty}^{\infty} f(x)dx = 1$
$\mathrm{P}(a \leq \mathrm{X} \leq b)$
O
a
m
b
x

Start End


y
$\mathrm{N}(m, \sigma^2)$
$f(x) = \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{(x-m)^2}{2\sigma^2}} \quad (-\infty < x < \infty)$
$\frac{1}{\sqrt{2\pi}\sigma}$
$\int_{-\infty}^{\infty} f(x)dx = 1$
$\mathrm{P}(a \le \mathrm{X} \le b) = \int_a^b f(x)dx$
O
a
m
b
x

Github:
https://min7014.github.io/math20230602001.html

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and you can see a picture moving.