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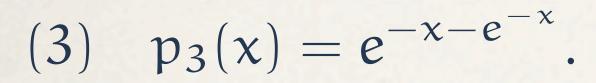
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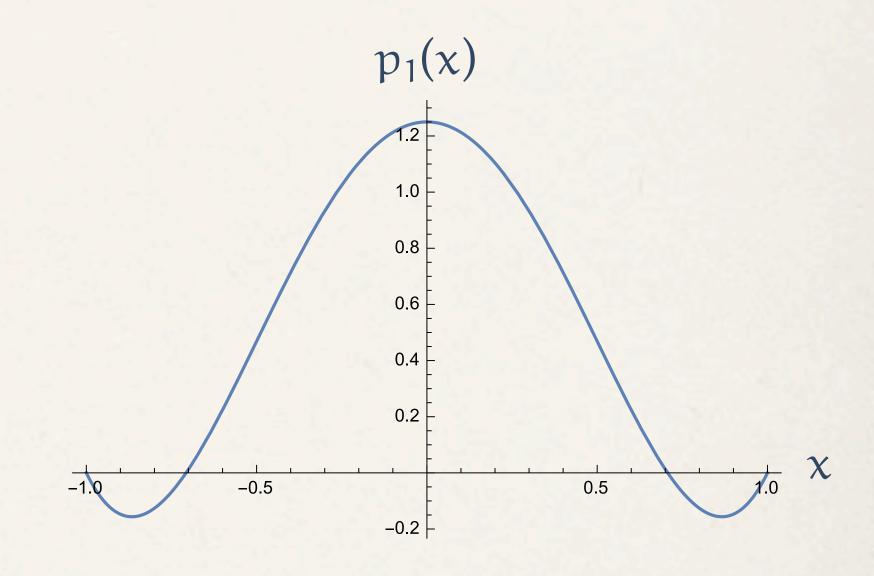
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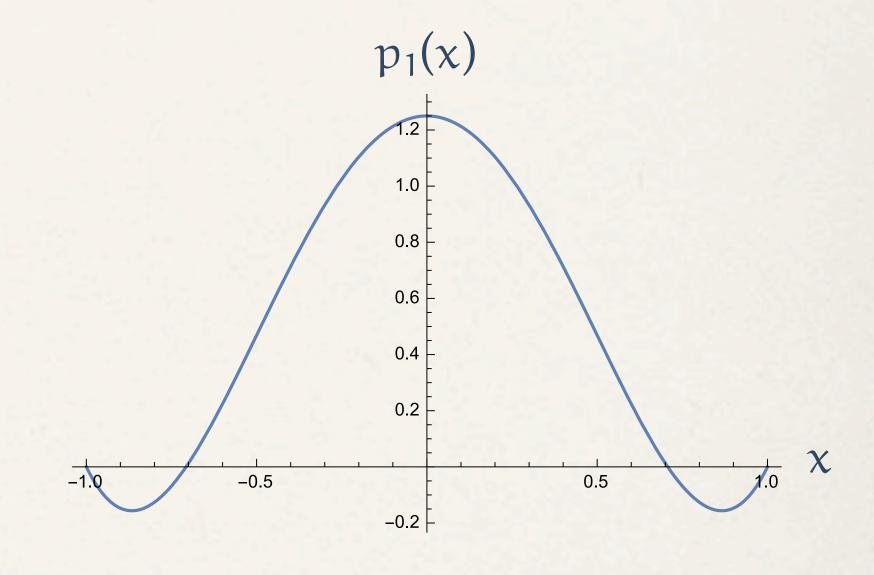


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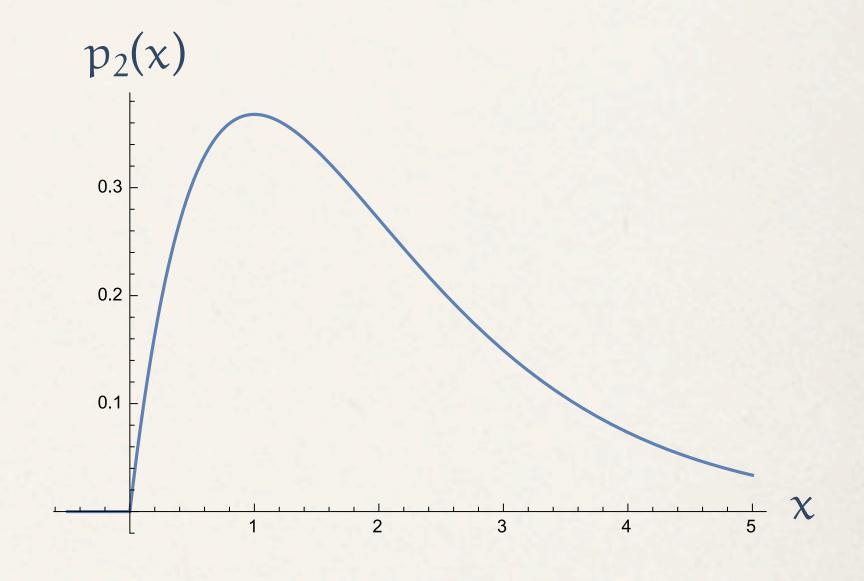


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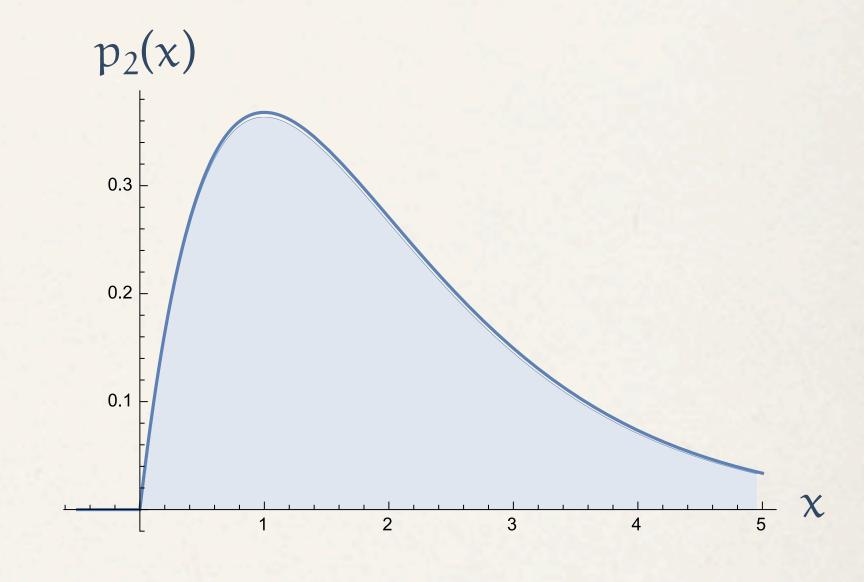


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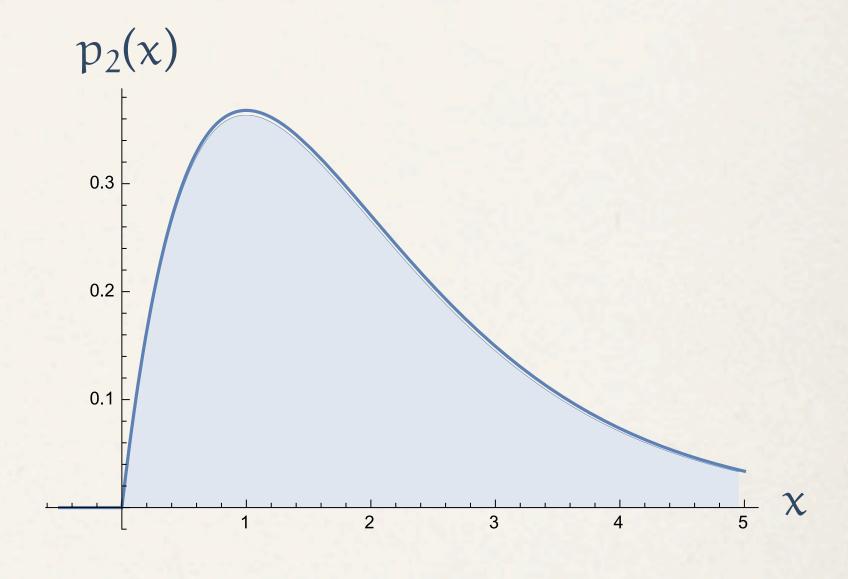
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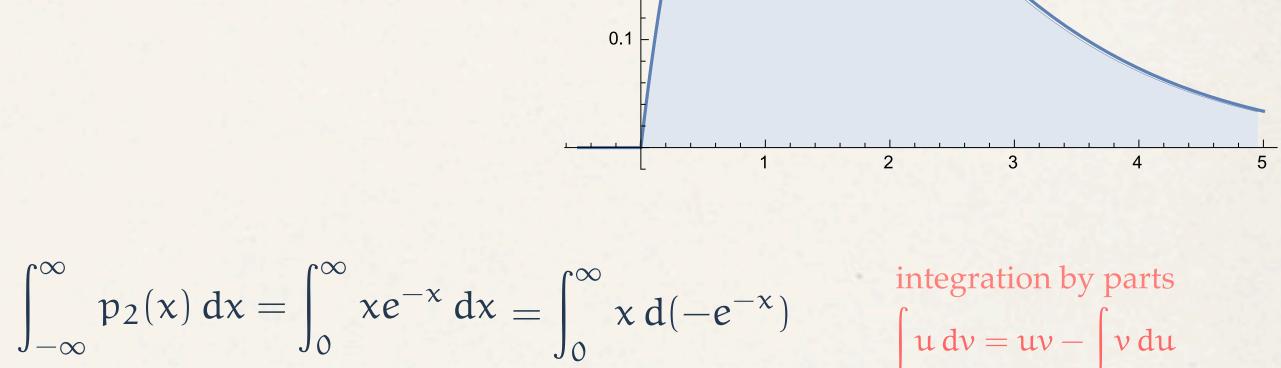
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$$p_2(x)$$

$$0.3$$

$$0.1$$

$$0.1$$

$$1$$

$$2$$

$$3$$

$$4$$

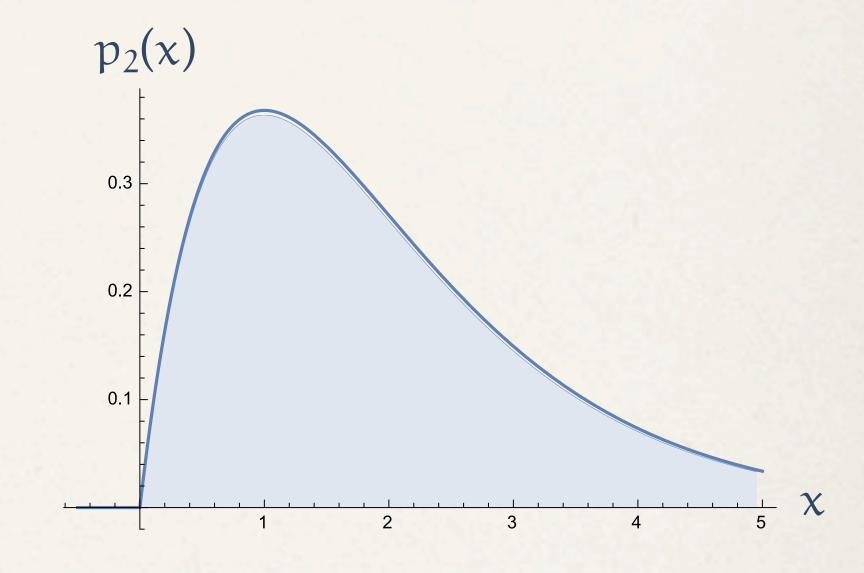
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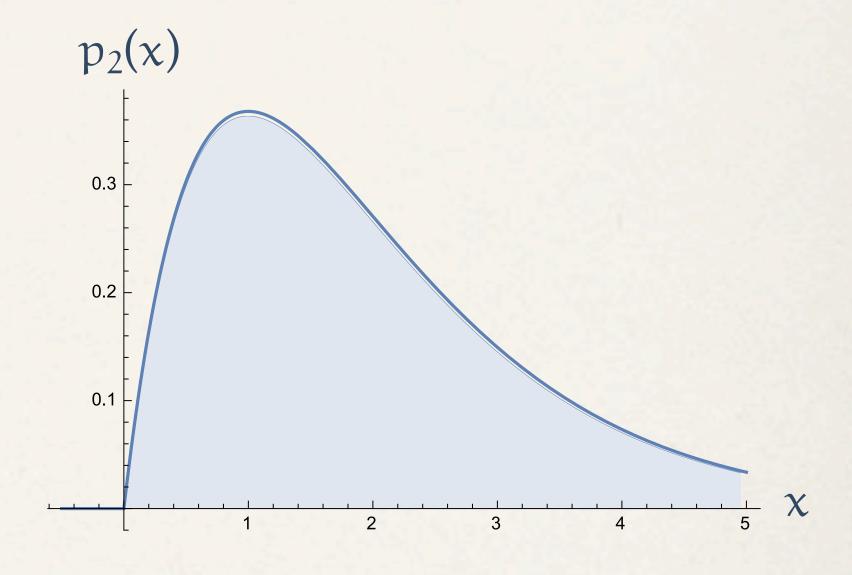
$$\int_{-\infty}^{\infty} p_2(x) dx = \int_0^{\infty} x e^{-x} dx = \int_0^{\infty} x d(-e^{-x})$$
 integration by parts
$$\int_0^{\infty} u dv = uv - \int_0^{\infty} u dv =$$

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$$p_2(x)$$

0.2

0.1

1 2 3 4 5

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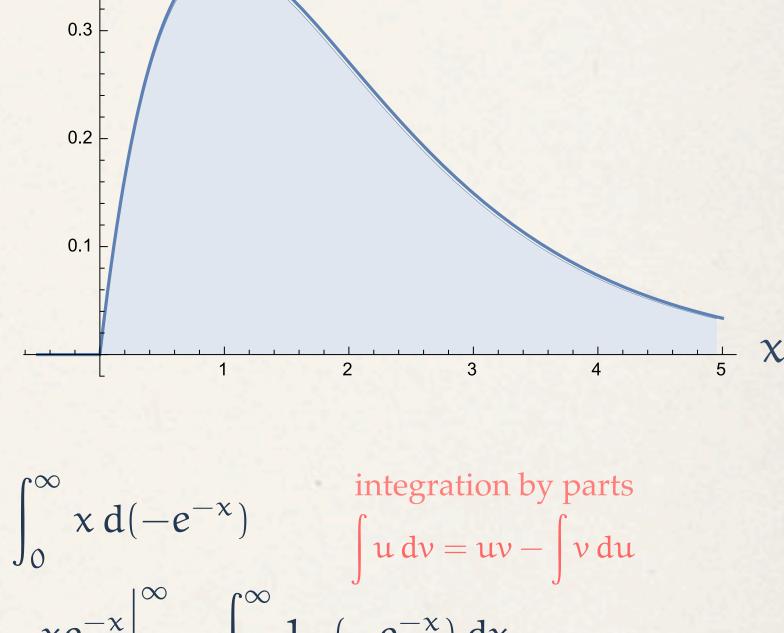
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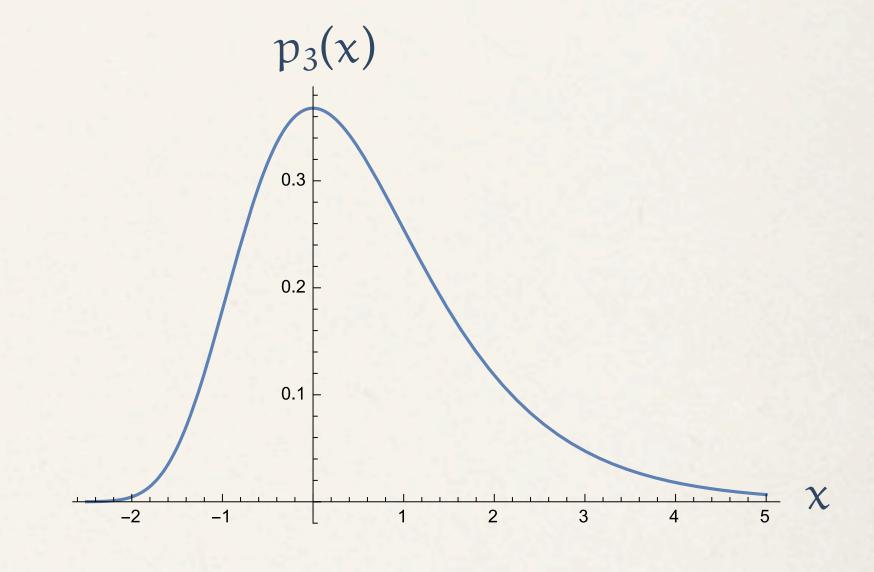
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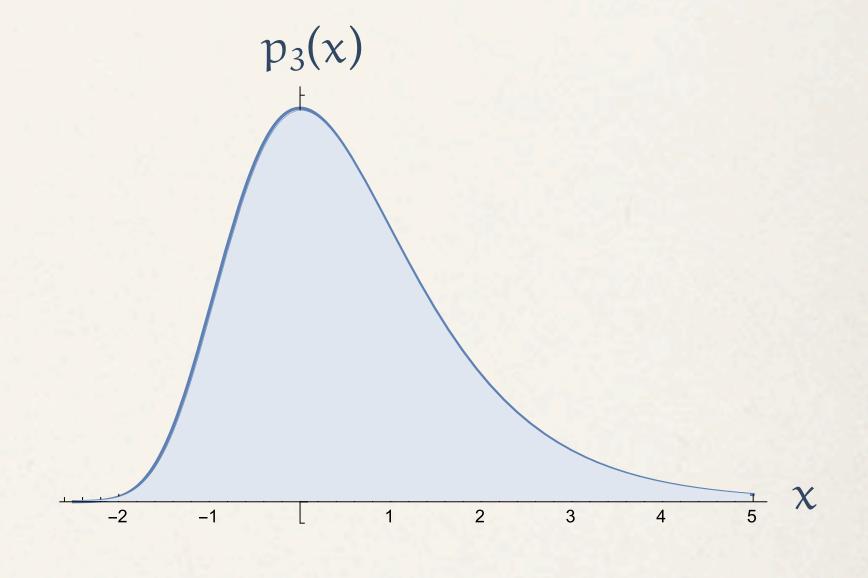
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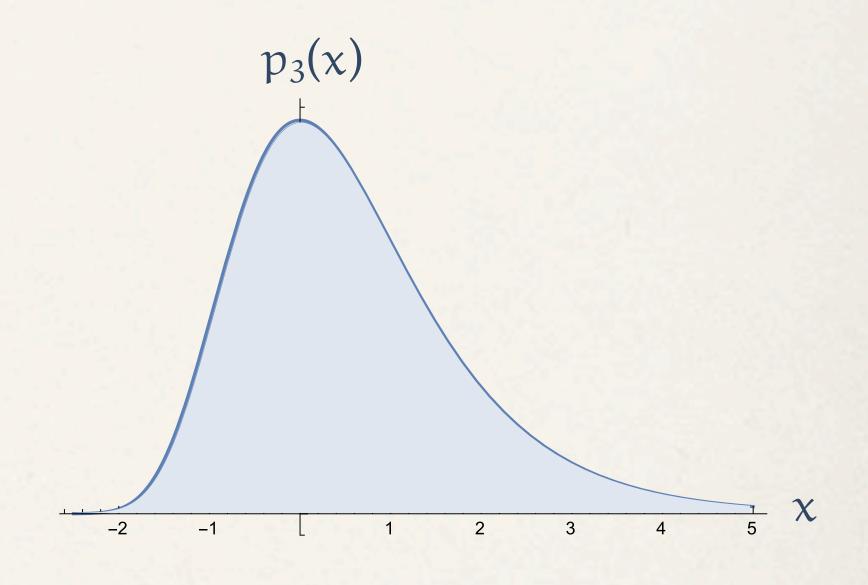
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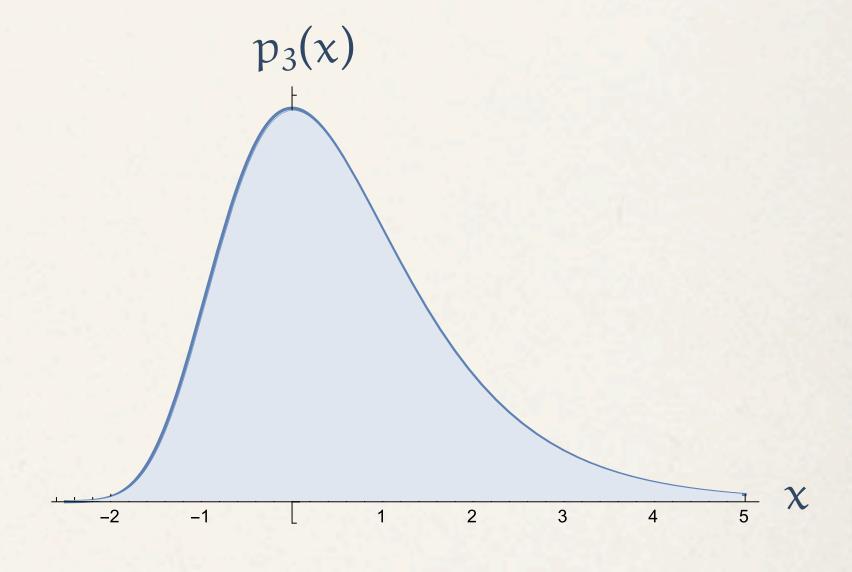
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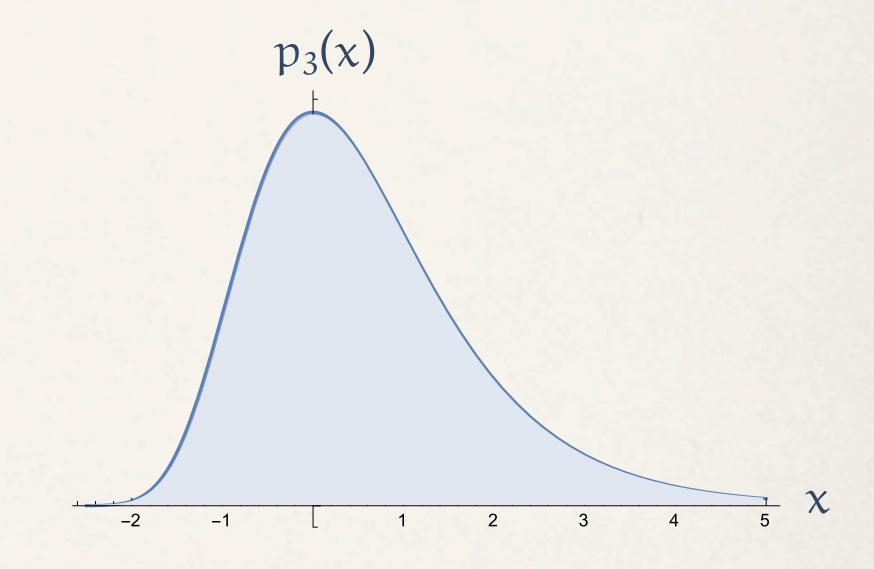
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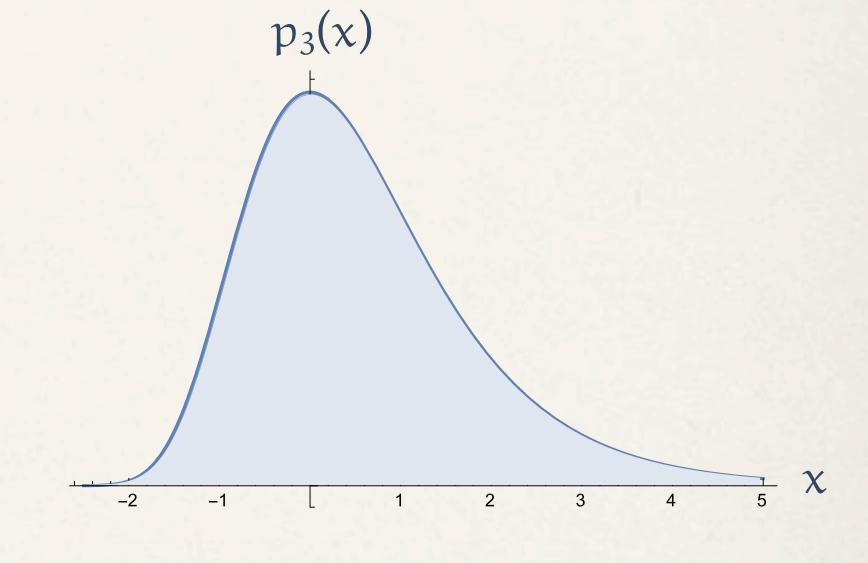
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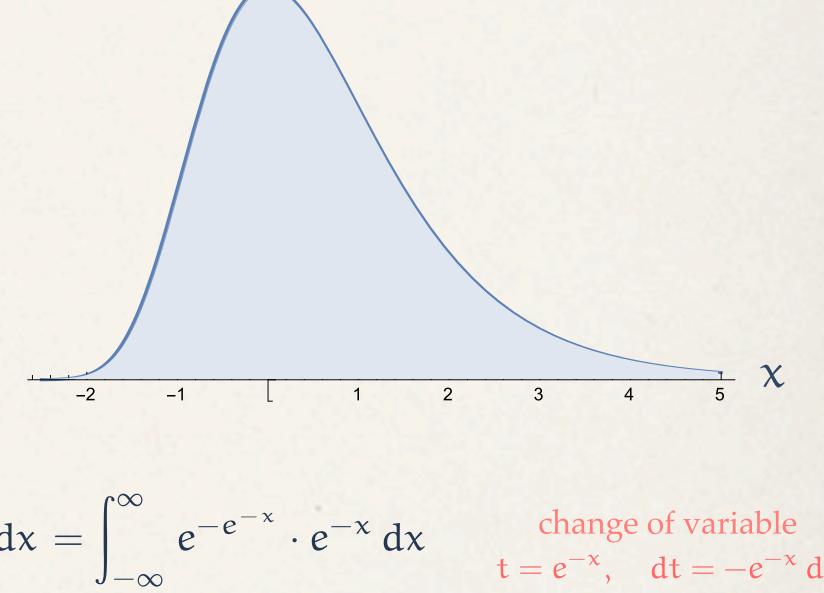
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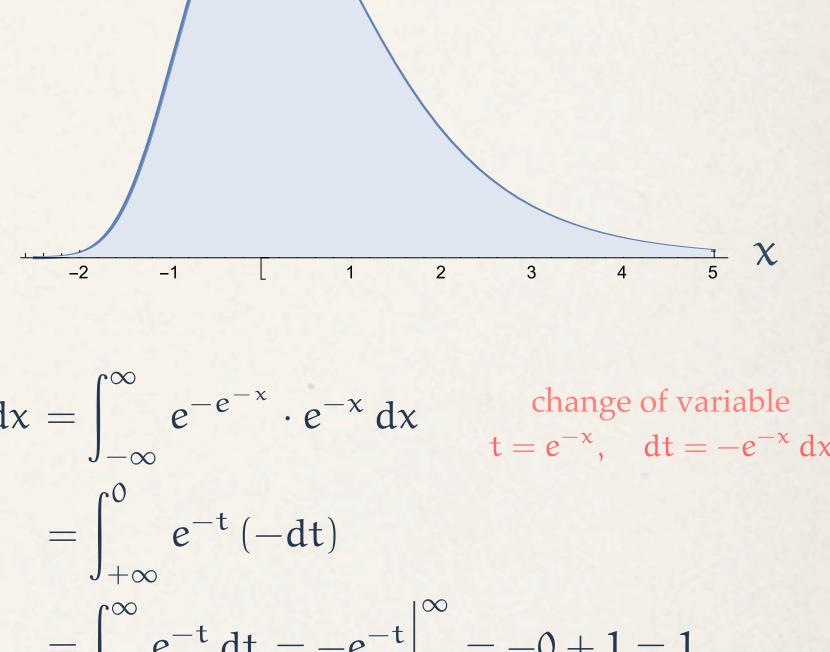
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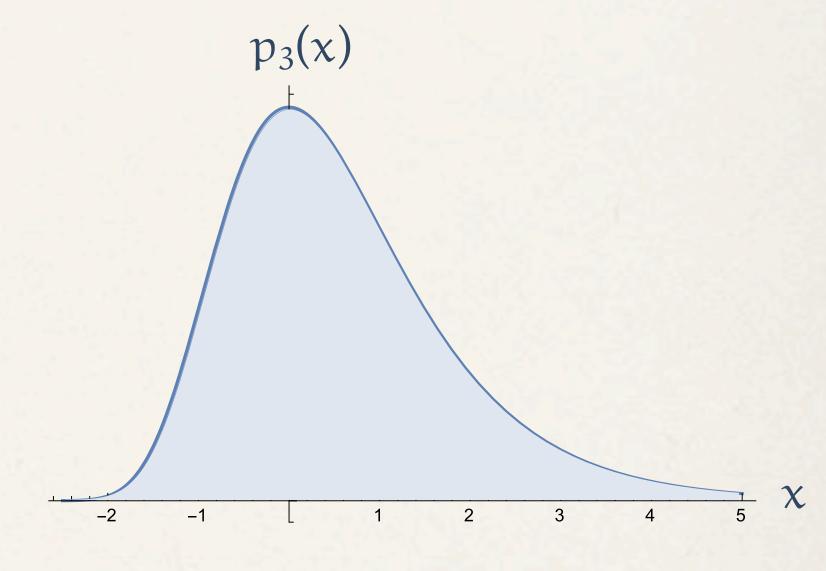
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The extreme-value (Gumbel) density; arises in models of extreme events



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Utile erit scribit ∫ pro omnia — Gottfried Leibniz