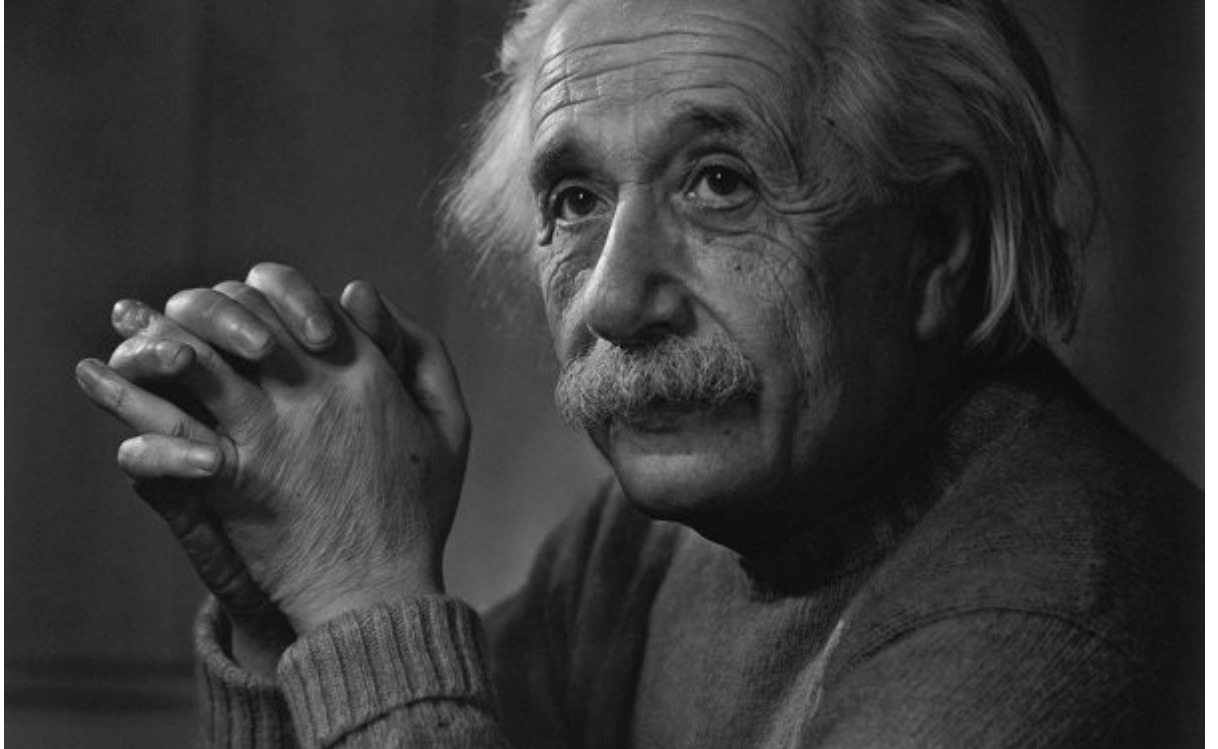


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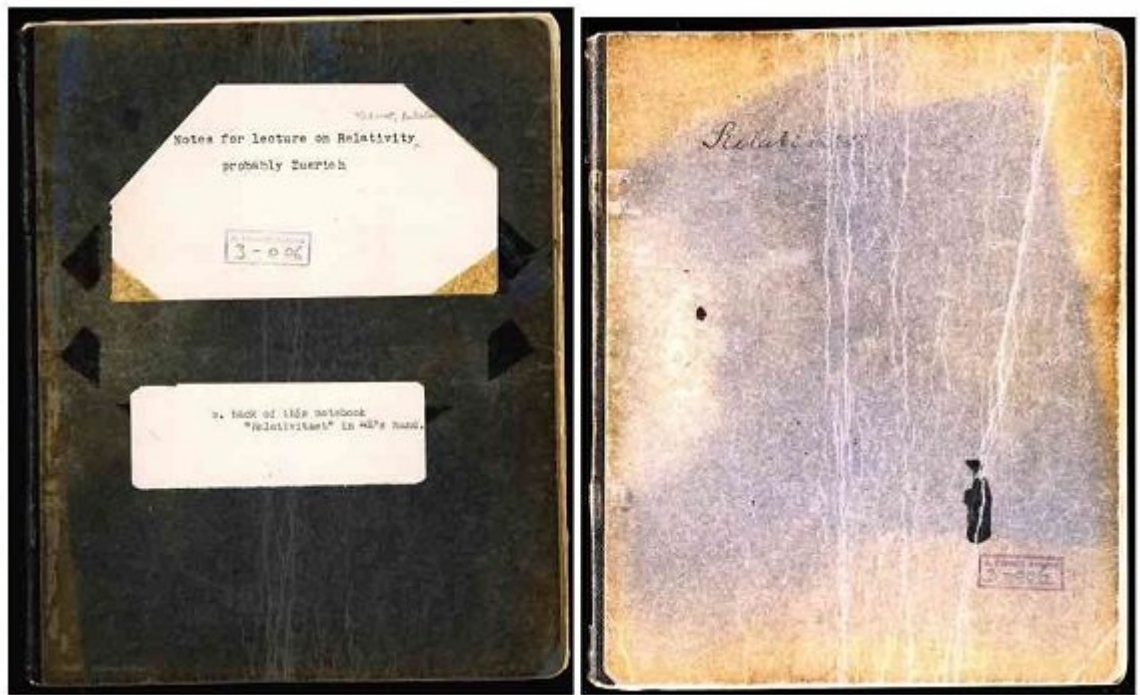
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$$dx' = dx + \alpha(y dx + x dy)$$

$$dy' = dy - \alpha x dy$$

$$dx' = x + \alpha x t$$

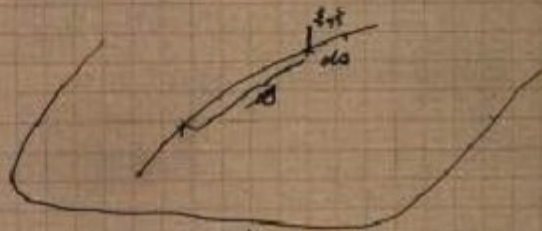
$$t' = t - \alpha \frac{x^2}{2}$$

$$x' = x + \frac{1}{2} \alpha \frac{\partial f}{\partial x} t^2$$

$$t' = t$$

$$\text{wenn } \frac{dx}{ds} = \frac{\partial f}{\partial x} = \frac{\partial f}{\partial t} \quad \frac{d^2 x}{ds^2} = \frac{\partial^2 f}{\partial x^2}$$

$$f = 0$$



$$x + \xi \quad x + \xi + \frac{dx}{ds} ds + d\xi$$

$$y + \eta \quad ds'^2 = (dx + d\xi)^2 + \dots$$

$$z + \zeta \quad = ds^2 + 2(dx d\xi + \dots)$$

$$= ds^2 \left(1 + 2 \frac{dx}{ds} \frac{d\xi}{ds} + \dots \right)$$

$$ds' = ds \left(1 + \left(\frac{dx}{ds} \frac{d\xi}{ds} + \dots \right) \right)$$

$$ds' - ds = \left(\frac{dx}{ds} \frac{d\xi}{ds} + \dots \right) ds$$

$$\int \left(\frac{dx}{ds} \frac{d\xi}{ds} + \dots \right) ds = 0$$

$$\frac{d}{ds} \left(\frac{dx}{ds} \frac{d\xi}{ds} \right) = \frac{d^2 x}{ds^2} \frac{d\xi}{ds}$$

$$\int \left(\frac{d^2 x}{ds^2} \frac{d\xi}{ds} + \dots \right) ds = 0$$

$$\text{wenn } \frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial y^2} + \frac{\partial^2 f}{\partial z^2} = 0$$

was die Behauptung

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$$[{}^{uv}{}_{\ell}] = \frac{1}{2} \left(\frac{\partial g_{ul}}{\partial x_v} + \frac{\partial g_{vl}}{\partial x_u} - \frac{\partial g_{uv}}{\partial x_\ell} \right) \quad \frac{\partial [{}^{il}{}_{\ell}]}{\partial x_i} - \frac{\partial [{}^{kl}{}_{\ell}]}{\partial x_k}$$

$$(i\kappa, l m) = \frac{1}{2} \left(\frac{\partial^2 g_{im}}{\partial x_\kappa \partial x_\ell} + \frac{\partial^2 g_{kl}}{\partial x_i \partial x_m} - \frac{\partial^2 g_{il}}{\partial x_\kappa \partial x_m} - \frac{\partial^2 g_{km}}{\partial x_i \partial x_\ell} \right) \left\{ \begin{array}{l} \text{Grossmann} \\ \text{identität} \\ \text{Kannengleichheit} \end{array} \right.$$

$$+ \sum_{\rho \sigma} g_{\rho \sigma} ([{}^{im}{}_{\sigma}] [{}^{\kappa l}{}_{\rho}] - [{}^{il}{}_{\sigma}] [{}^{\kappa m}{}_{\rho}])$$

$$\sum g_{kl} (i\kappa, l m)$$

$$\sum g_{kl} [{}^{\kappa l}{}_{\rho}] = \sum g_{kl} \left[\frac{\partial g_{kl}}{\partial x_\rho} + \frac{\partial g_{\rho l}}{\partial x_k} - \frac{\partial g_{kl}}{\partial x_\rho} \right]$$

$$= \frac{1}{2} \frac{\partial g_{\rho \rho}}{\partial x_\rho} + 2 \sum_{kl} g_{kl} \frac{\partial g_{kl}}{\partial x_\rho}$$

$$\frac{1}{4} \sum g_{\rho \sigma} \left(\frac{\partial g_{\rho \sigma}}{\partial x_m} + \frac{\partial g_{m \sigma}}{\partial x_\rho} - \frac{\partial g_{im}}{\partial x_\sigma} \right) \left[-\frac{\partial g_{\rho \rho}}{\partial x_\rho} + 2 \sum_{kl} g_{kl} \frac{\partial g_{kl}}{\partial x_\rho} \right]$$

$$\sum g_{kl} g_{\rho \sigma} ([{}^{im}{}_{\sigma}] [{}^{\kappa l}{}_{\rho}] - [{}^{il}{}_{\sigma}] [{}^{\kappa m}{}_{\rho}])$$

$$= \sum_{\rho} \left\{ {}^{im}{}_{\rho} \right\} \cdot \frac{\partial g_{\rho \rho}}{\partial x_\rho} + 2 \sum_{kl\rho} \left\{ {}^{im}{}_{\rho} \right\} \cdot g_{kl} \frac{\partial g_{kl}}{\partial x_\rho} - \sum_{kl\rho} \left\{ {}^{il}{}_{\rho} \right\} \left(\frac{\partial g_{\rho \rho}}{\partial x_m} \right) g_{kl}$$

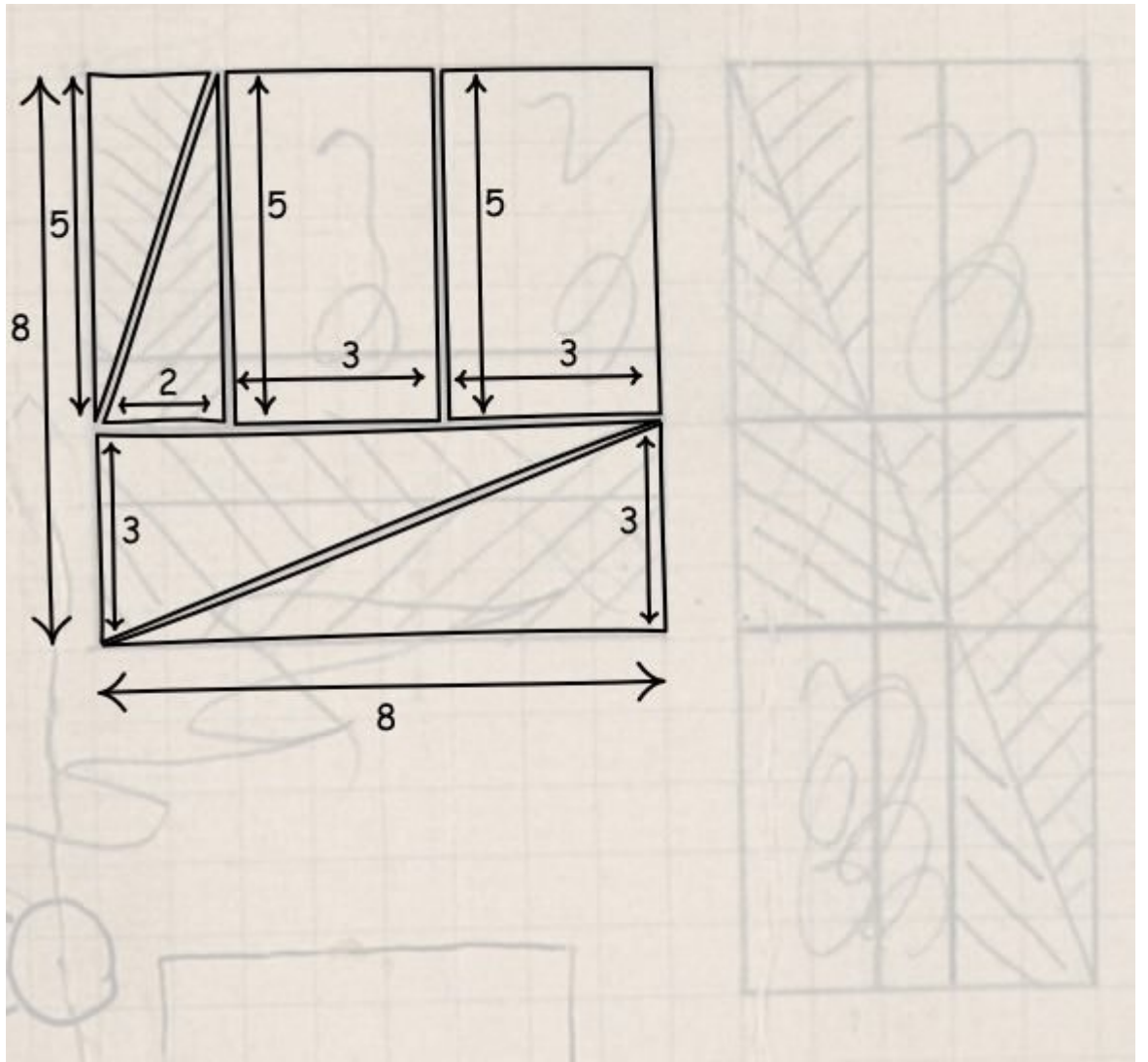
$$+ \sum_{\rho \ell} \left\{ {}^{il}{}_{\rho} \right\} \cdot \left\{ {}^{\rho m}{}_{\ell} \right\}$$

$$\sum_k \left(\frac{\partial^2 g_{kk}}{\partial x_i \partial x_m} - \frac{\partial^2 g_{ik}}{\partial x_k \partial x_m} - \frac{\partial^2 g_{mk}}{\partial x_k \partial x_i} \right) = 0$$

Sollte verschwinden.

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The drawing shows a rectangular object with a total width of 8 and a total height of 13. The object is divided into three vertical sections. The left section has a width of 2 and a height of 8. The middle section has a width of 3 and a height of 5. The right section has a width of 3 and a height of 5. The drawing includes a diagonal line in the left section and a diagonal line in the right section. The background is a light-colored grid paper with faint pencil sketches of a book cover and a piece of paper.

11:20 - 16/10/1396

<https://www.shabakeh-mag.com/news/11334/%DB%8C%D8%A7%D8%AF%D8%AF%D8%A7%D8%B4%D8%AA%E2%80%8C%D9%87%D8%A7%DB%8C-%D8%A8%D8%B3%DB%8C%D8%A7%D8%B1-%D9%85%D8%B9%D8%B1%D9%88%D9%81-%D8%A7%DB%8C%D9%86%D8%B4%D8%AA%DB%8C%D9%86-%D9%87%D9%85-%D8%A7%DA%A9%D9%86%D9%88%D9%86-%D8%A8%D9%87-%D8%B5%D9%88%D8%B1%D8%AA-%D8%A2%D9%86%D9%84%D8%A7%DB%8C%D9%86-%D8%AF%D8%B1-%D8%AF%D8%B3%D8%AA%D8%B1%D8%B3-%D8%B4%D9%85%D8%A7>