(&(g(x)))= & (g(x) g'(x) Petteryl $\left(\int_{-c}^{c} \sin(e^t) dt\right) = \sin(e^{x^3}) \cdot 3 \cdot x^2$ $\left(\int_{0}^{\infty} e^{\sin(t^{2})}dt\right)' = e^{\sin(x^{10})} \cdot 5\cdot x^{4}$ $\left(\int_{0}^{x^{2}}\cos\left(t^{2}+t\right)dt\right)^{\prime}=\cos\left(x^{4}+x^{2}\right)\cdot7\cdot x^{6}$ $\left(\int_{-\infty}^{\alpha(x)} \varepsilon^2 ds\right)' = (\alpha(x))^2 \cdot \alpha'(x)$

Ramptonta

A: R > R sketig and x se R

T: R > R x

With
$$e^{u(t)} = 2(1+t) \cdot e^{-u(t)} \min_{t \in u(t)} u^{t}(t)$$

With $e^{u(t)} = 2(1+t) \cdot e^{-u(t)} \max_{t \in u(t)} u^{t}(t)$

The point $e^{u(t)} = 2(1+t) \cdot e^{-u(t)} \min_{t \in u(t)} u^{t}(t)$

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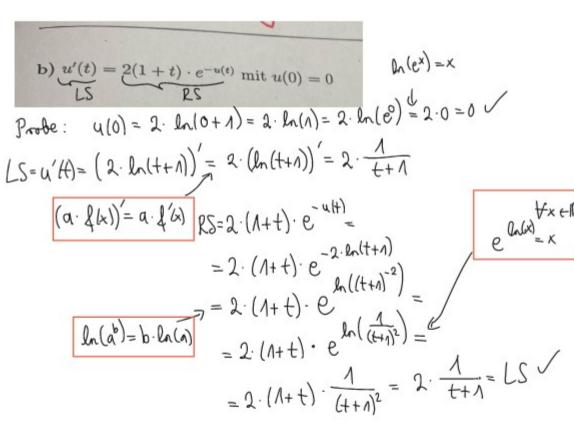
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Lösen Sie die folgenden Differentialgleichungen 1. Ordnung:

Autgabe 1:
$$y' = x + 1$$
, $y(-2) = \frac{1}{2}$

Autgabe 2: $y' = y^{2} \sin x$
 $y_{1}(0) - 1$, $y_{2}(0) - \frac{1}{2}$, $y_{3}(0) - 2$

Autgabe 3: $y' = y^{2} \sin x$
 $y_{1}(0) - 1$, $y_{2}(0) - \frac{1}{2}$, $y_{3}(0) - 2$

$$y'(x) = \frac{1}{2}$$
, $(3 - y(x))$

$$y'(x) = \frac{1}{2}$$

$$y(x)$$

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 $(ln(3-s))=\frac{1}{3-s}\cdot(-1)$

$$\left(\ln(s^2) \right)' = \frac{1}{s^2} \cdot 2 \cdot s$$

$$\int_{S^2} \ln ds = \int_{S^2} \ln s \cdot ds =$$

$$\int_{S^2} \ln ds = \int_{S^2} \ln s \cdot ds =$$

$$= (-1) \cdot s \cdot ds =$$

$$= -\frac{1}{s} \cdot s \cdot ds =$$

Aufgabe 4:
$$y' = y^2 \sin x$$

$$y_1(0) = 1, \quad y_2(0) = \frac{1}{2}, \quad y_3(0) = -2$$

$$y'(x) = y(x) \cdot \text{min} \times \left[: y^2(x) \right]$$

$$y'(x) \cdot \frac{1}{y^2(x)} = \text{min} \times \text{Notiable}$$

$$y(x) \cdot \frac{1}{y^2(x)} = \text{min}(s) ds$$

$$1 = y_0 \text{ for all } = \text{min}(s) ds$$

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