$$\int_{0}^{2\pi} \frac{dx}{dx} (e^{x} - x) \cdot \operatorname{arctg} \left(\frac{x^{2}}{2 + \ln^{2} x}\right) dx$$

$$\int_{0}^{2\pi} \frac{dx}{dx} = \int_{0}^{2\pi} \frac{x^{2}}{2 + \ln^{2} x} dx \quad ; \quad x = \frac{1}{2}; \quad dx = -\frac{dt}{d^{2}}$$

$$\int_{0}^{2\pi} \frac{dx}{dx} \cdot \frac{dx}{dx} dx = \int_{0}^{2\pi} \frac{x^{2}}{2 + \ln^{2} x} dx \quad ; \quad x = \frac{1}{2}; \quad dx = -\frac{dt}{d^{2}}$$

$$\int_{0}^{2\pi} \frac{dx}{dx} \cdot \frac{dx}{dx} dx = \int_{0}^{2\pi} \frac{x^{2}}{2 + \ln^{2} x} dx \quad ; \quad x = \frac{1}{2}; \quad t \geq \frac{1}{2}$$

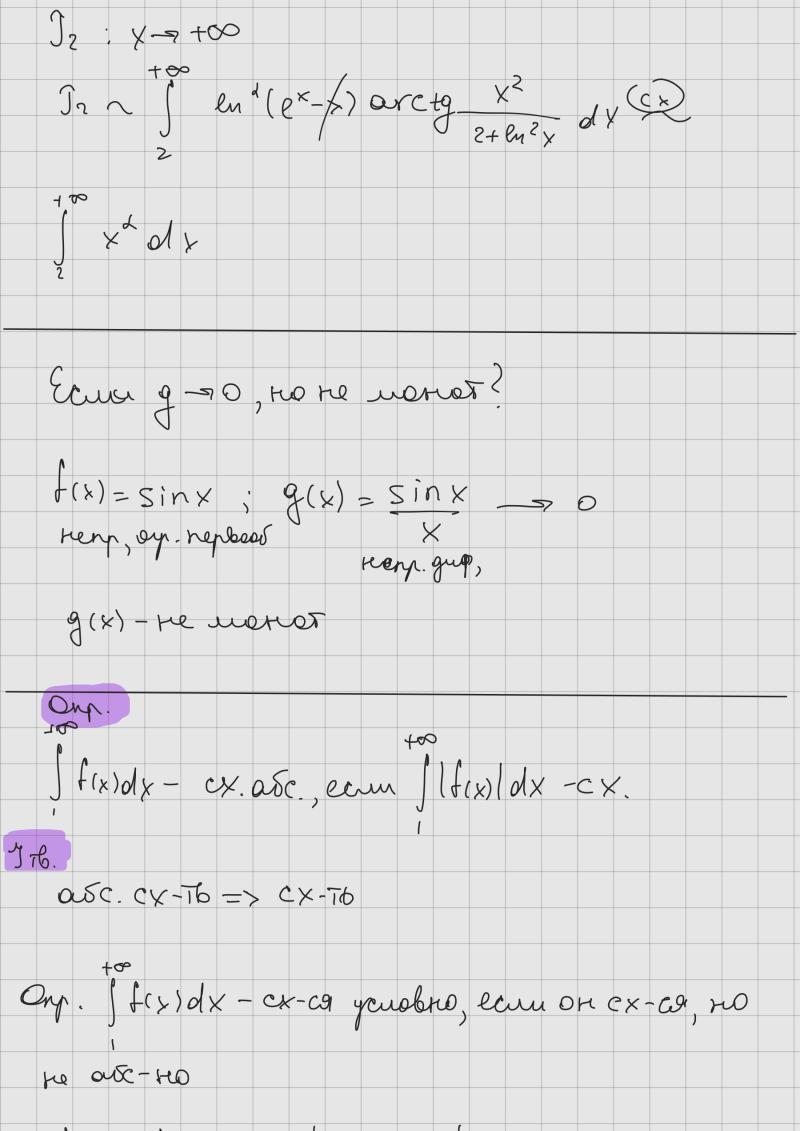
$$\int_{0}^{2\pi} \frac{dx}{dx} \cdot \frac{dx}{dx} dx \quad ; \quad x = \frac{1}{2}; \quad t \geq \frac{1}{2}$$

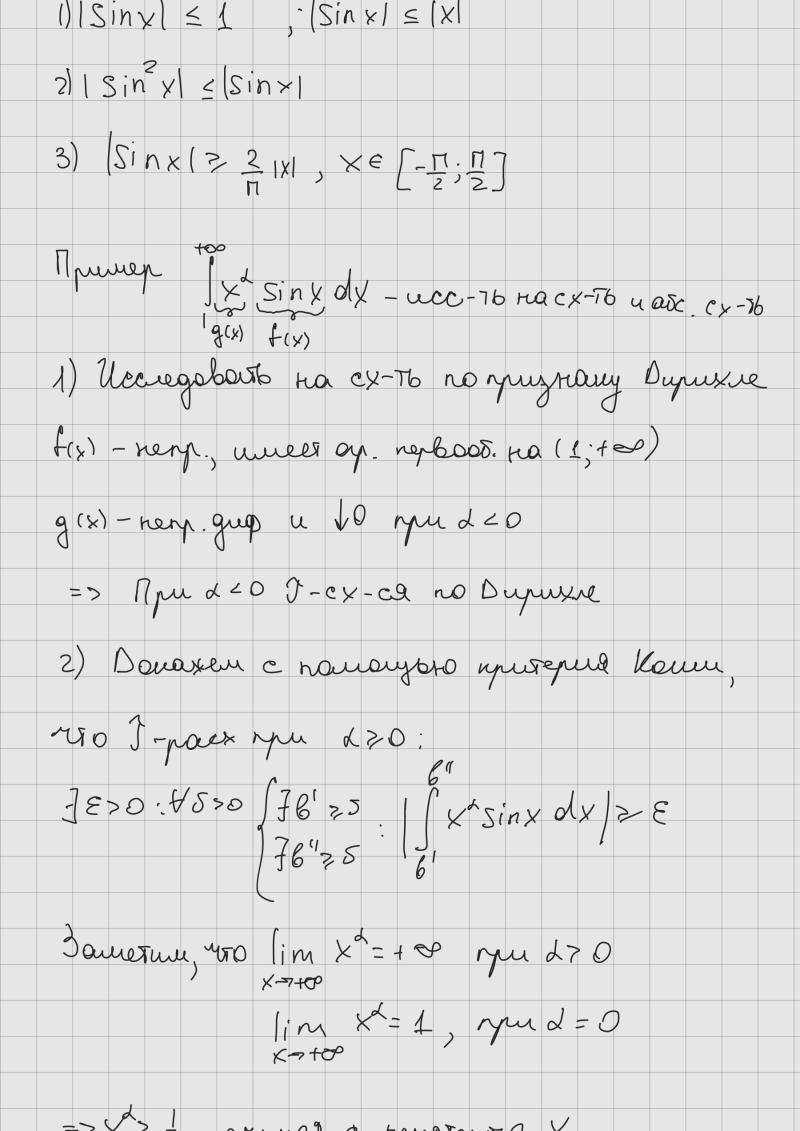
$$\int_{0}^{2\pi} \frac{dx}{dx} \cdot \frac{dx}{dx} dx \quad ; \quad x = \frac{1}{2}; \quad t \geq \frac{1}{2}$$

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$$|\int_{0}^{\pi} x^{4} \sin x \, dx| \geq \frac{1}{2} |\int_{0}^{\pi} x^{4} \sin x \, dx| \geq \frac{1}{2} |\int_{0}^{\pi} x^{4} \sin x \, dx| \geq \frac{1}{2} |\int_{0}^{\pi} x^{4} \sin x \, dx| \geq \frac{1}{2} = 1$$

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