Summar 12

vx 1

$$\overline{+}$$
in $f: \mathbb{R}^3 \to \mathbb{R}$, $f(x_1y_1t) = x + y + y$

Det sumetile de extrem global als lui f atunci când variabilele rale sent meure restricției $x^2 + y^1 + z^2 = 3$

ex 2

en 3

Det
$$\lim_{n\to\infty} \int_0^1 \frac{x \sin(nx)}{n^2 + nx^2 + x} dx$$

ex 4

Fix
$$a, b \in \mathbb{R}$$
, $a \in \mathbb{R}$ $a_i \in \{a, b\} \rightarrow \mathbb{R}$ $a.a.$

$$\int_a^b f(x) dx = 0 \quad \text{if} \quad \int_a^b x^m f(x) dx = 0 \quad \forall m \in \mathbb{N}^T$$
Anātaļi vā $f(x) = 0$, $\forall x \in [a, b]$, modu f cont.

es 5

Det wm. integrale improprie

a)
$$\int_{0}^{\infty} \frac{1}{1+x^{2}} dx$$

c) $\int_{0}^{4} \frac{1}{\sqrt{1-x^{2}}}$

e) $\int_{-\infty}^{\infty} \frac{x}{1+x^{4}} dx$

d) $\int_{-\infty}^{\frac{1}{2}} \frac{1}{x^{4}} dx$