(1)
$$P(x) = \begin{vmatrix} e_1 & e_2 & e_3 \\ e_2 & e_3 & e_2 \\ e_3 & e_3 & e_2 & e_3 \end{vmatrix}$$

$$= (0-0) - de^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (0-0) - de^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

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$$= (0-0) - de^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (0-0) - de^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (1) - de^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (1) - de^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (1) - de^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (1) - de^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (1) - de^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (2) - d^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (2) - d^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (2) - d^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (2) - d^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

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$$= (2) - d^{dx} + le^{dx}, 0-0) = (0,0,0) \text{ ma } \mathbb{R}^3 \in \mathbb{R}$$

$$= (2) - d^{dx} + le^{dx}, 0-0) = (2) - d^{dx} + le^{dx}, 0-0$$

$$= (2) - d^{dx} + le^{dx},$$

(De) Hedsme body minima femles
$$f(2,2) = (-22+2+1)^2 + (2-1)^2 + (22+2-2)^2$$
ma muosime $H = \mathbb{R}^4$.

Proboso f je lomoekus, je lasoly slaenouskus
bod bodem minima.
$$\frac{2f}{0} = -4(-22+2+1) + 4(22+2-2) = 0 \qquad (1)$$

$$\frac{2f}{0} = 2(-22+2+1) + 2(2-1) + 2(22+2-2) = 0 \qquad (2)$$

$$(1) \Rightarrow 42 - 3 = 0 \Rightarrow 2 = \frac{3}{3}$$
Hedans prima ma probo somiei $g = \frac{3}{4} \times +\frac{3}{3}$.

Theomotorie museme o sessent power metions
$$25p^2 = 25p^2 = 25$$

Poologe $ATA = \begin{pmatrix} 8 & 0 \\ 0 & 3 \end{pmatrix}$, $je(ATA)^{-1} = \frac{1}{24}\begin{pmatrix} 3 & 0 \\ 0 & 8 \end{pmatrix}$.
Odded

$$\frac{3}{3}$$

$$\frac{1}{3} = \frac{3}{3} - x^{2}$$

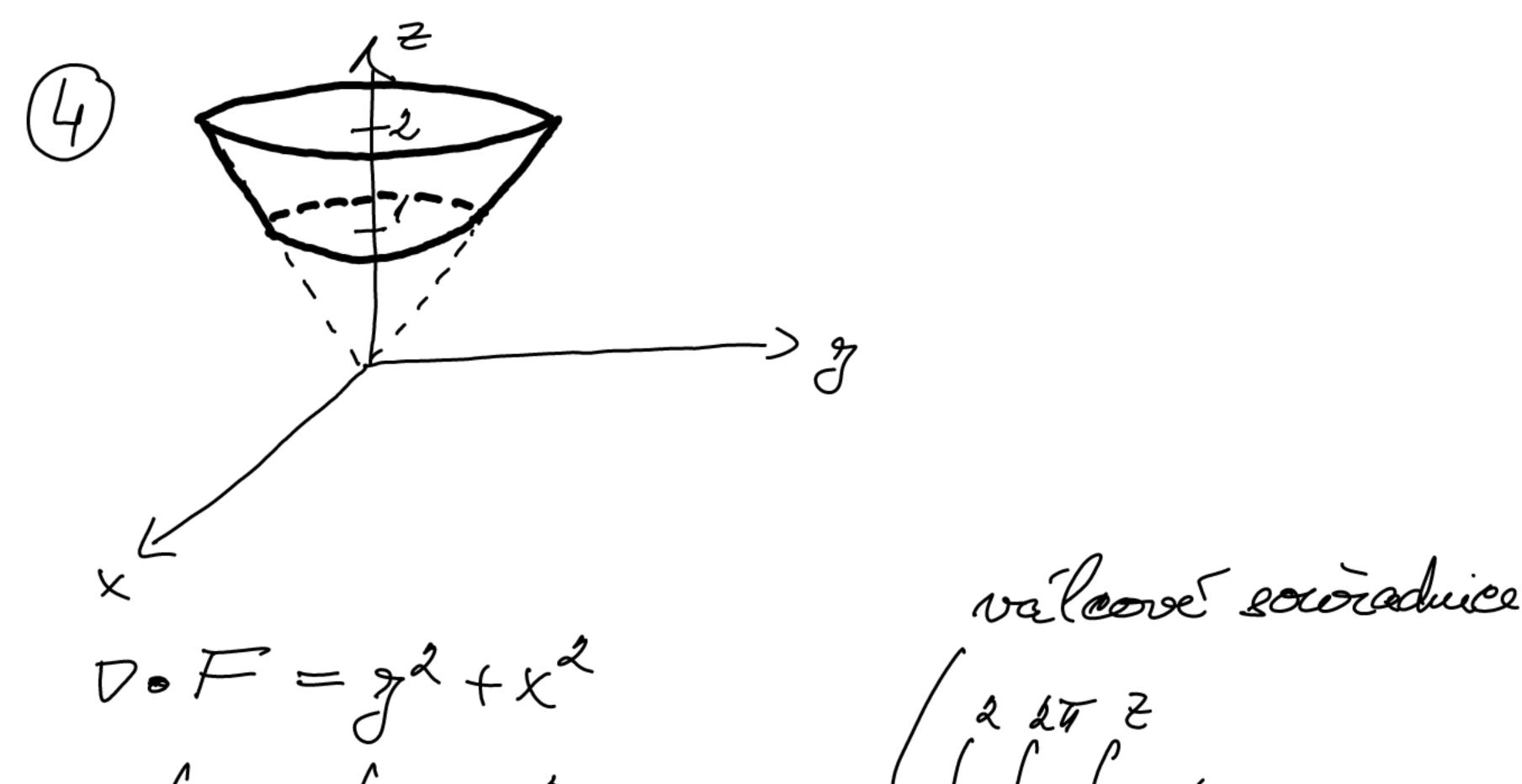
$$\frac{1}{3} = \frac{1}{3} = \frac{3}{3} - x^{2}$$

$$\frac{1}{3} = \frac{1}{3} = \frac{1}{3} = \frac{1}{3} = \frac{1}{3}$$

$$\frac{1}{3} = \frac{1}{3} = \frac{1}{3} = \frac{1}{3}$$

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$$\frac{1}{3} = \frac{1}{3} = \frac{1}{3}$$



$$\begin{array}{ll}
\nabla \cdot F &= g^2 + \chi^2 \\
&= \int_{S} F = \int_{X^2 + g^2} \chi^2 + g^2 d\lambda_{S}(\chi_{g}(z)) = \int_{S} \int_{S} g^2 \chi \, dy \, d\theta \, d\theta \, dz \\
&= \int_{S} 2\pi \frac{z^4}{4} \, dz = \frac{\pi}{2} \left[\frac{z^5}{5} \right]_{1}^{2} = \frac{\pi}{10} (32-1)
\end{array}$$

$$=\frac{3111}{10}.$$

integrigeme liebon femlei près

[interval equalité folem 0.

$$a_2 = \frac{1}{17} \int -t \cos(2t) dt = 0$$
 paro $2e M_0$.

 $b_2 = \frac{1}{17} \int -t \sin(2t) dt = \frac{2}{17} \int -t \cos(2t) dt = \frac$

Forexieros rada fembre
$$f$$
 je $\sum_{i=1}^{\infty} \frac{2(-1)^{2}}{2} \sin(2t)$

b) Soveret Fp(t) Forerierous rady fembre f na intervalen [51,717) je

$$f(t) = f(t-6\pi) = \begin{cases} -t + 6\pi, te(5\pi,7\pi), \\ 0, t = 5\pi. \end{cases}$$