

⑥② [2 points]

We denote by Z the cylinder $\{(x_1, x_2, x_3) : x_1^2 + x_2^2 = 1\}$.

Please calculate the Gaussian curvature of Z !

⑥③ [1 point]

Let V_1, \dots, V_n be fin. dim. vec sps and $1 \leq a \leq n$.

We pick elements $T \in \text{Mult}(V_1 \times \dots \times V_a, \mathbb{R})$ and $S \in \text{Mult}(V_{a+1} \times \dots \times V_n, \mathbb{R})$. How do we define $T \otimes S$?

Or in other words with which rather nice object could we identify $T \otimes S$?