T2) 
$$\frac{1}{2}$$
  $\frac{1}{2}$   $\frac{1}{2}$ 

oli; (Z) can be easily compted, is just a dist. motrix

The 
$$(BZZ^T) = tn(Z^TBZ)$$
 where  $bij = \begin{cases} -\alpha ij & i \neq i \\ -\sum bie & i = j \end{cases}$   $B = -D_X \otimes D_Z + deg((D_X \otimes D_Z) \mathbf{1})$ 

TOTAL FURHULA)
$$o(Z) = tr(Z^TVZ) - 2tr(Z^TB_*Z) + \sum_{i>j} dx_{i,j}^2$$

## GRADIENT