











101, = 10, 1+102) .... (ii) Z Uz In (i) we found  $\sum u_{\vec{e}} = \sum |\underline{v}_{\vec{e}}|$   $|\dot{e}|_1 = n+1$   $|\dot{e}|_2 = n+1$ > since we know how many times we is

repeated for each & we can remove

this sum and rewrite it like in the solution ex3 Each we is associated with in the full grid will span these in the Rierarchical grid (iii) Also see Garche, Jochen ,, Sparse Grids in Adaptive Implementation - Add a more complex refinement criterion - We let the code decide on how many levels to refine Important then we have ,, non-symmetrical Punctions"