${ t E7.59}$ [OFX]Prerequisites: [O9N] . Note:From the written exam of March 27, 2010.. ${ t Say}$ ${ t for}$

Fvercises

which $\alpha \in \mathbb{R}$ the series

 $\sum_{(m,n)\in\mathbb{N}^2} \frac{1}{(n+m+1)^{\alpha}} .$

Solution 1. **TOFY**

converges. Then discuss, for
$$N \ge 3$$
, the convergence of \sum