Riemann's $\zeta$ function
zeta
$\zeta(s)=\sum_{n=1}^{\infty} \frac{1}{n^{s}} \quad$ when $\operatorname{Re}(s)>1$.
Observe $\left|\frac{1}{n^{s}}\right|=\left|e^{-s \ln (n)}\right|$ $=e^{-\operatorname{Re}(s) \ln (n)}=\frac{1}{n^{\operatorname{Re}(s)}}$


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