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On the ℓ_p Norm of GCD and Related Matrices

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Abstract: We estimate the ℓ_p norm of the $n \times n$ matrix, whose ij entry is $(i, j)^s / [i, j]^r$, where $r, s \in \mathbb{R}$, (i, j) is the greatest common divisor of i and j and $[i, j]$ is the least common multiple of i and j .



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