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Analytic functions are $\mathcal{I}$-density continuous

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Abstract: A real function is $\mathcal{I}$-density continuous if it is continuous with the $\mathcal{I}$-density topology on both the domain and the range. If f is analytic, then f is $\mathcal{I}$-density continuous. There exists a function which is both C^∞ and convex which is not $\mathcal{I}$-density continuous.

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