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# **Equivalence between Extendibility and Factor-Criticality**

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In this paper, we show that if \$k\geq (\nu+2)/4\$, where \$\nu\$ denotes the order of a graph, a non-bipartite graph \$G\$ is \$k\$-extendable if and only if it is \$2k\$-factor-critical. If \$k\geq (\nu-3)/4\$, a graph \$G\$ is \$k\ 1/2\$-extendable if and only if it is \$(2k+1)\$-factor-critical. We also give examples to show that the two bounds are best possible. Our results are answers to a problem posted by Favaron [3] and Yu [11].

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