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A generalization of the Euler-Fermat theorem.

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This note considers the problem of determining, for fixed k and m , all values of r , $0 < r < \phi(m)$, such that $k^{\phi(m)+1} \equiv k^r \pmod{m}$. More generally, if k , m and c are given, necessary and sufficient conditions are given for $k^c \equiv k^r \pmod{m}$, $0 \leq r < c$.

Classification: F60

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