The Theorem of Wilson

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Abstract

In this paper, we study two number-theoretic results of which much use in made in many areas of mathematics. The first is Euler's theorem and the second is Wilson's theorem. The second may even surprise and delight you if you have not seen it before. We use these two number-theoretic results to solve some problems in such a way as to show the power generated by a mere change in notation from $n \mid a - b$ to $a \equiv b \pmod{n}$.

Key words: Euler's theorem and Wilson's theorem

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