

Arnold Knopfmacher and Neville Robbins
Some Properties of Cyclic Compositions,
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Abstract

Say that two compositions of n into k parts are related if they differ only by a cyclic shift. This defines an equivalence relation on the set of such compositions. Let $\left\langle \begin{smallmatrix} n \\ k \end{smallmatrix} \right\rangle$ denote the number of distinct corresponding equivalence classes, that is, the number of cyclic compositions of n into k parts. We prove some theorems concerning $\left\langle \begin{smallmatrix} n \\ k \end{smallmatrix} \right\rangle$.