ABSTRACT

Given graph G and H, the Ramsey number R(G, H) is the smallest natural
number n such that every graph F of order n fulfills the following condition: either
F contains G or the complement of F contains H. This paper investigates the
Ramsey number $R(S_n, W_m)$ of star versus wheel. Given star S_n and wheel W_m
then $R(S_n, W_m) = 3n - 2$ for odd m, $n \geq 3$ and $m \leq 2n - 1$. Furthermore
$R(S_n, W_m) = 3n - 4$ for odd n, $n \geq 5$ and $m = 2n - 4$.

Keywords :Ramsey numbers, stars, wheels.