

## R – Number Of Some Families Of Graphs

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### Abstract

Let  $G(V(G),E(G))$  be a simple connected graph. An injective function  $f : V(G) \rightarrow \{1, 2, 3, \dots\}$  is said to be an R-labeling if it satisfies the following conditions:  $|f(u) - f(v)| \geq 2$ , if  $d(u, v) = 1$  ;  $|f(u) - f(v)| \geq 1$ , if  $d(u, v) = 2$ , for any two distinct vertices  $u, v \in V(G)$ . The span of an R-labeling,  $f$ , is the largest integer in the range of  $f$  and is denoted by  $fR$ . The R- number,  $R(G)$  or  $R$  of  $G$  is the minimum span taken over all R-labelings of  $G$ . In this paper, we determine the R – number of some families of graphs.

### Keywords


R – number ; span ;  $\lambda$ -number



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