

Pelabelan total (a, d)- busur anti ajaib pada gabungan graf gabungan graf korona dan gabungan graf prisma

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Abstrak

Misalkan $G_{(a,d)}$ adalah sebuah graf dengan n simpul dan m busur dari $G_{(a,d)}$. Pelabelan total (a, d)-busur anti ajaib ((a, d)-PTBAA) dari sebuah graf $G_{(a,d)}$ adalah sebuah pemetaan satu-satu f dari $V(G_{(a,d)})$ ke himpunan $\{1, 2, \dots, n+m\}$ sedemikian hingga himpunan bobot busur $\{w_1, w_2, \dots, w_m\}$ sama dengan $\{1, 2, \dots, n+m\}$ untuk suatu bilangan bulat $a > 0$ dan $d \geq 0$. Jika $w_1, w_2, \dots, w_m = \{1, 2, \dots, n+m\}$ maka pelabelan f disebut pelabelan total super (a, d)-busur anti ajaib ((a, d)-PTSBA), dan jika $d = 0$ maka pelabelan f disebut juga pelabelan total busur ajaib (PTBA). Pada tesis ini dibangun suatu konstruksi (a, d)-PTBAA pada gabungan m graf korona K_n dan gabungan m graf prisma P_n .

Let $G_{(a,d)}$ is a graph with n vertices and m edges of $G_{(a,d)}$. An (a, d)-edge antimagic total labeling ((a, d)-EAT labeling) of a $G_{(a,d)}$ graph is defined as a one-to-one mapping f from $V(G_{(a,d)})$ onto the set $\{1, 2, \dots, n+m\}$, so that the set of weight $\{w_1, w_2, \dots, w_m\}$ is equal to $\{1, 2, \dots, n+m\}$ for some integer $a > 0$ and $d \geq 0$. If $w_1, w_2, \dots, w_m = \{1, 2, \dots, n+m\}$ then the labeling f is called (a, d)-super edge antimagic total labeling ((a, d)-SEAT labeling), and if $d = 0$ then the labeling f is also called (a, d)-edge antimagic total labeling (EAT labeling). In this thesis a construction of (a, d)-EAT labeling on the union of m corona graphs K_n and the union of m prism graphs P_n is constructed.

K_n and P_n isomorphic for $n \geq 2$ and $n \geq 2$, and the union of m prism graphs P_n isomorphic for $n \geq 2$, $n \geq 2$ and $n \geq 2$. Let $G_{(a,d)}$ is a graph with n vertices and m edges of $G_{(a,d)}$. An (a, d)-edge antimagic total labeling ((a, d)-EAT labeling) of a $G_{(a,d)}$ graph is defined as a one-to-one mapping f from $V(G_{(a,d)})$ onto the set $\{1, 2, \dots, n+m\}$, so that the set of weight $\{w_1, w_2, \dots, w_m\}$ is equal to $\{1, 2, \dots, n+m\}$ for some integer $a > 0$ and $d \geq 0$. If $w_1, w_2, \dots, w_m = \{1, 2, \dots, n+m\}$ then the labeling f is called (a, d)-super edge antimagic total labeling ((a, d)-SEAT labeling), and if $d = 0$ then the labeling f is also called (a, d)-edge antimagic total labeling (EAT labeling). In this thesis a construction of (a, d)-EAT labeling on the union of m corona graphs K_n and the union of m prism graphs P_n is constructed.

Let $a > 0$ and $d \geq 0$. If $d = 1, 2, \dots$, then f labeling is called super (a, d) -edge antimagic total labeling (super (a, d) -EAT labeling) and when $d = 0$ then f labeling is called edge magic total labeling (EMT labeling). In this thesis was constructed (a, d) -EAT labeling on union of isomorphic corona $C_n \times C_m$; $C_n \times C_m$; $C_n \times C_m$ graphs for $d = 0$ and $d = 2$, and union of isomorphic prisms $C_n \times C_m$; $C_n \times C_m$ graphs for $d = 0, 1$ and $d = 2$.