

Regular digraphs of diameter 2 and maximum order: Corrigenda

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In [1], in Figure 6, Eqs. (9) and (10), each v_l should be replaced by $v_{l,q}$, where q is the second argument (index) of the corresponding λ and x . Additionally, on p. 300, v_3 and v_4 should be replaced by $v_{3,1}$ and $v_{4,1}$ respectively. Some changes are also necessary in Formulas 11 and 12 (p. 299) used in Theorem 2.

Moreover, since $\sum_{q=1}^l e^{i\frac{2\pi q}{l}} = 0$ for $l \geq 2$, we have $\sum_{q=1}^{\lfloor \frac{l-1}{2} \rfloor} c_{lq} = \begin{cases} \frac{1}{2} & \text{if } l \geq 3 \text{ odd} \\ 1 & \text{otherwise.} \end{cases}$

Consequently, the correct version of Theorem 2 is:

Theorem 2 For the numbers m_l of permutation cycles of length l , $l = 1, 2, \dots, n$ of a (d) -digraph there are nonnegative integers u and $v_{l,q}$, $q = 1, 2, \dots, \lfloor \frac{l-1}{2} \rfloor$, fulfilling (11) and (12).

Where

$$d - u + \sum_{\substack{l \text{ odd} \\ l \geq 3}}^{(l-1)/2} [-2(m_l - v_{lq}) + 2(2v_{lq} - m_l)re\{x(l, q)\}] + \sum_{l \text{ even}} \sum_{q=1}^{\frac{1}{2}l-1} [-2(m_l - v_{lq}) + 2(2v_{lq} - m_l)re\{x(l, q)\}] - \frac{1}{2} \sum_{l \text{ even}} m_l = 0, \quad (11)$$

$$d^2 + u + \sum_{\substack{l \text{ odd} \\ l \geq 3}} \left[m_l + \sum_{q=1}^{(l-1)/2} (-2v_{lq} + 2(m_l - 2v_{lq})re\{x(l, q)\}) \right] + \sum_{l \text{ even}} \sum_{q=1}^{\frac{1}{2}l-1} [-2v_{lq} + 2(m_l - 2v_{lq})re\{x(l, q)\}] + \frac{1}{2} \sum_{l \text{ even}} m_l = m_1. \quad (12)$$

- [1] Edy Tri Baskoro, Mirka Miller, Ján Plesník and Štefan ZnáM, Regular digraphs of diameter 2 and maximum order, *Australasian Journal of Combinatorics* 9 (1994), 291–306.

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