

Automorphisms of the Simple Graphs on Four Vertices

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$G \in \mathcal{G}_4$	$ \text{Aut}(G) $	$ O(G) $	
	24	1	$\left. \vphantom{\begin{matrix} 24 \\ 4 \end{matrix}} \right\} \binom{6}{0}$
	4	$\binom{4}{2} = 6$	
	2	$4\binom{3}{2} = 12$	$\left. \vphantom{\begin{matrix} 2 \\ 8 \end{matrix}} \right\} \binom{6}{2}$
	8	$\binom{3}{1} = 3$	
	6	$\binom{4}{1} = 4$	
	2	$2!\binom{4}{2} = 12$	$\left. \vphantom{\begin{matrix} 6 \\ 6 \end{matrix}} \right\} \binom{6}{3}$
	6	$\binom{4}{1} = 4$	
	8	$\binom{3}{1} = 3$	
	2	$4 \times 3 = 12$	$\left. \vphantom{\begin{matrix} 4 \\ 24 \end{matrix}} \right\} \binom{6}{5}$
	4	$\binom{4}{2} = 6$	
	24	1	$\binom{6}{6}$

¹<https://pennance.us>