

On 3-generated lattices with standard and dual standard elements among generators*N. A. Minigulov**Ural Federal University, Yekaterinburg, Russia*

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In [1] a 3-generated lattice is proved to be distributive if two of its generators are standard. It means that such lattice has at most 18 elements. Obviously the same result is true if there are two dual standard generators. We consider 3-generated lattices when one generator is standard and another generator is dual standard.

Theorem. *Let L be a 3-generated lattice. If one generator of L is standard and another generator is dual standard then L contains not more than 21 elements.*

It should be noted that the estimate in Theorem is sharp.

References

- [1] G. Grätzer, E. T. Schmidt, Standard ideals in lattices. *Acta Math. Acad. Sci. Hungar* **12** (1961) 17–86.