

Title: The Burnside Group $B(3, 2)$ as a Two-Relator Quotient of $C_3 * C_3$

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Abstract: We prove that the free Burnside Group $B(3, 2)$ has order 27 and is isomorphic to $\langle a, b \mid a^3, b^3(ab)^3, (b^{-1}a)^3 \rangle$. The technique of our proof is also used to show that $\langle a, b \mid a^3, b^3, a^2(ba)^n b^2 \rangle$ is the semidirect product $C_{n^2+n+1} \rtimes C_3$.