

1. **Theorem 8.1:** $|(g_1, \dots, g_n)| = \text{lcm}\{|g_1|, \dots, |g_n|\}$.
2. **Theorem 8.2:** Let G and H be finite cyclic groups.
Then $G \oplus H$ is cyclic iff $|G|$ and $|H|$ are relatively prime.

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