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TOPIC:9- Cosets

Right coset of H in G The right coset of H, denoted by H * a, is H * a = {h * a : h ∈ H} + a ∈ G



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① Find the left cosets of the subgroup

$$H = \{[0], [3]\}$$
 of the group $[z_6, +_6]$.

Let $Z_6 = \{0, 1, 2, 3, 4, 5\}$
 $H = \{0, 3\}$
 $0 + H = \{0, 3\} = H$
 $1 + H = \{1, 4\}$
 $2 + H = \{2, 5\}$
 $3 + H = \{0, 3\} = H$
 $4 + H = \{4, 1\} = 1 + H$
 $5 + H = \{5, 2\} = 2 + H$

Left coset of H .



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