

Numeral System Conversions

Conversion	Method	Example
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Binary Arithmetic

Operation	Rules	Example
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Negative Numbers: Two's Complement

Method:

Invert all bits (1's complement).

Add 1 to the result.

Example:

-5_{10} in 4-bit binary:

Step 1: $5 = 0101 \rightarrow \text{Invert} \rightarrow 1010$.

Step 2: $1010 + 1 = 1011$ (represents -5).



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