# Elementary Number Theory: Number Theoretic Functions

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## 1 The Sum and Number of Divisors

- Given $n \in \mathbb{N}$, let $\tau(n)$ denote the number of positive divisors of $n$ and let $\sigma(n)$ denote the sum of these divisors.

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## 2 The Möbius Inversion Formula

## 3 The Greatest Integer Function