

sum_bound^{4,23}

$\forall k, b: \mathbb{N}, f: (\mathbb{N}_{<k} \rightarrow \mathbb{Z}). (\forall x: \mathbb{N}_{<k}. f(x) \leq b) \Rightarrow \text{sum}(f(x) \mid x < k) \leq b \cdot k$