

sum_functionality^{4,23}

$\forall n:\mathbb{N}, f, g:(\mathbb{N}_{<n} \rightarrow \mathbb{Z}). (\forall i:\mathbb{N}_{<n}. f(i) = g(i)) \Rightarrow \text{sum}(f(x) \mid x < n) = \text{sum}(g(x) \mid x < n) \in \mathbb{Z}$