

**prod\_sum\_l\_q**<sup>11,40</sup>

$\forall a, b: \mathbb{Z}.$

$(a \leq b) \Rightarrow (\forall E: (\{a..b^-\} \rightarrow \mathbb{Q}), u: \mathbb{Q}. (u * \sum_{a \leq j < b} E(j)) = \sum_{a \leq j < b} u * E(j) \in \mathbb{Q})$