sum_arith1[4,23]

$\forall n{:}\mathbb{N},\ a,\ b{:}\mathbb{Z}.\ \mathrm{sum}(a{+}b{\cdot}i \mid i < n){\cdot}2 = n{\cdot}(a{+}a{+}b{\cdot}(n{-}1))$

http://www.nuprl.org/FDLcontent/p0_802137_/p97_136421_{sum_arith1}.html