double_sum_difference[4,23]

$\forall n, m{:}\mathbb{N}, f, g{:}(\mathbb{N}_{<n} \to \mathbb{N}_{<m} \to \mathbb{Z}), d{:}\mathbb{Z}.$
$\text{sum}(f(x,y) - g(x,y) \mid x < n; y < m) = d$
$\Rightarrow \text{sum}(f(x,y) \mid x < n; y < m) = \text{sum}(g(x,y) \mid x < n; y < m) + d$

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http://www.nuprl.org/FDLcontent/p0_802137_/p95_202642_{double_sum_difference}.html