

Area of triangle



GIVENS: Side1, Side2, Side3

RESULTS: Area (area of triangle)

INTERMEDIATES: P (perimeter of triangle)

HEADER: Area \leftarrow ComputeArea(Side1, Side2, Side3)

ASSUMPTIONS Side1, Side2, Side3 are positive numbers

CONSTRAINTS Side1, Side2, Side3 form a closed triangle

BODY:

$P \leftarrow \text{Side1} + \text{Side2} + \text{Side3}$

$\text{Area} \leftarrow \text{sqrt}(P * (P - 2 * \text{Side1}) * (P - 2 * \text{Side2}) * (P - 2 * \text{Side3})) / 4$