Precalculations:

* Calculate analytical integration constants for GI, for tetrahedra and surfaces
* Calculate gaussian quadrature weights and points, for tetrahedra and surfaces.

During calculations:

* Calculate R matrix for VV, SV, VS, SS.
* Calculate GN and GA matrices.
* Multiply GN and GA with according values.
* Sum GN and GA related matrices along n axis to reduce them into vectors.
* Calculate GI vectors.\*
* Do remaining additions and multiplications.
* Sum vectors.

Calculate matrix element:

Input:

SGW1 SWG2

f1 f2 indices

f1->t1, gamma = 1

f2->t2, gamma = -1; or t1 if no t2, and gamma = 1

quadrature indices for f1 f2 t1 t2, and quad counts

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Find tip points for swg supports.

Calculate integrals

Calculate areas nad volumes