## OVERHANGING BEAM WITH 3 OR 2 SYMMETRICAL SUPPORTS

This program calculates the deflection, tangents to deflection curve, moments and shear forces to an overhanging beam with two or three symmetrical supports and uniformly distributed load.

The units entered should be compatible.

When working with 3 supports and the [a] distance is larger than about 23.861278752583% of the total length of the beam, the G force becomes negative and the problem is solved again with 2 supports, ignoring the middle support reaction, which is set to zero.

For the calculations, the program employs the Macaulay's method. A and B coefficients are needed for the integration of moment equation to find the deflection curve.

Should anyone be interested, she can download the two php files by clicking on the [Code] button.

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