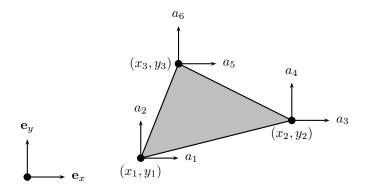
Purpose:

Compute the mass matrix for a triangular 3 node element.



Syntax:

Me=plan3gm(ec,t,rho)

Description:

plan3gm provides the element mass matrix Me for a triangular 3 node element. The element nodal coordinates x_1, y_1, x_2 etc. in the undeformed configuration are supplied to the function by ec

$$ec = \begin{bmatrix} x_1 & x_2 & x_3 \\ y_1 & y_2 & y_3 \end{bmatrix}$$

The element thickness t is supplied by t, and rho is the mass density in the reference undeformed configuration.