## **Assignment 5**

A thin triangular slab (assume plane stress conditions) loaded by a horizontal force is allowed to move horizontally at node 1 and nodes 2 and 3 are fixed. At the constant initial temperature  $\mathcal{G}^{\circ}$  and loading F=0, stress vanishes. If the slab is heated to the constant temperature  $2\mathcal{G}^{\circ}$ , what is the required force F to have  $u_{X1}=0$ ? Material properties E,  $\nu$ ,  $\alpha$  and thickness t of the slab are constants.

