Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student number\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Assignment 2 (2p)**

The bar of the figure is loaded by its own weight. Cross-sectional area *A* and density  of the material are constants. Use the bar model boundary value problem

*L*

*x*

*y*

*g*

 and  in ,

 or  on .

to determine the stress  and displacement .