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

**Home assignment 2**

What is relative (numerical) error in the smallest frequency of the free vibrations  of the string shown obtained with the Finite Element Method and a regular spatial grid ? Cross-sectional area , density of the material , and horizontal tightening  are constants. The smallest frequency given by the continuum model .

*L*





