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

**Home assignment 3**

Find the transverse displacement  of the string shown if the initial velocity and displacement at  are  ( is constant) and , respectively. Use the continuum model and assume that the string tightening and the mass per unit length  are constants.

*L*





