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

**Assignment 3**

Find the transverse displacement  and rotation  of the plane cantilever beam shown. Start with the Bernoulli beam model planar bending equations in their first order forms

*z*

*L*

*x*

*P*

, ,

where *E* and  are constants and ,  are the shear force and bending moment, respectively,