

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

## Problem 2

Determine displacement  $u_{Z2}$  and rotation  $\theta_{Y2}$  at the mid-point of the beam of the figure. Use two beam elements (1) and (2) of equal length. Point moment (3) with magnitude  $M$  is acting on node 2. Young's modulus of the material  $E$  and second moment of area  $I$  are constants.

