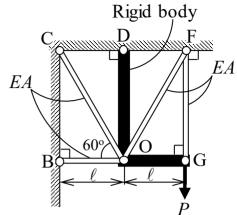
Number	

Applicant of INTERNATIONAL MASTER'S PROGRAM should answer in English.

- (I) Answer the following three questions for Fig. 1. (25 points)
 - (1) Write the equation for the balance of moment around Point D. The axial force of elastic bars OB, OC, OF, and FG are defined as Q, R, S, and T.
 - (2) Obtain the axial forces Q, R, S, and T.
 - (3) Obtain the displacement δ_{GV} of point G in the loading direction.



o: Pin joint

E : Young's modulus

A: Cross-sectional area

Fig. 1

Number

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- (II) Answer the following two questions for Fig. 2. (25 points)
 - (1) Draw the BMD (Bending Moment Diagram) for OAB.
 - (2) Obtain the relationship between P and Q when displacement of Point C in the horizontal direction equals to 0.

