

Final exam on Mechanics of Structures 3, 7.09.2020
remote method

===== Solutions sheets must meet the requirements below =====

1. Must include the declaration:

I declare that this piece of work, which is the basis for recognition of achieving learning outcomes in the Mechanics of Structures 3 course, was completed on my own.

First and last name (clearly handwritten)

Student ID number (clearly handwritten)

2. Must be turned in via MS Teams
Turn-in deadline: 7.09.2020, 11:00 (60 minutes after releasing)

Problem 1.

Calculate w_A (deflection at the free end of the grillage).

Assume $EJ = GJ_s$.

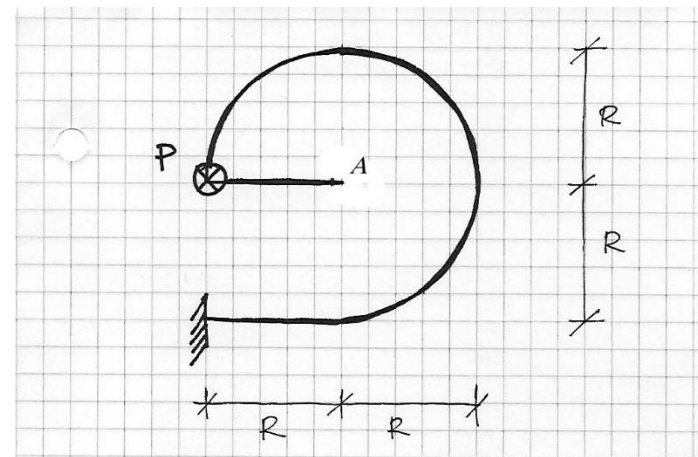


Fig. 1.

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Problem 2.

Explain the way of reasoning leading to determining natural frequencies of vibrations.

Assume $EJ = GJ_s$.

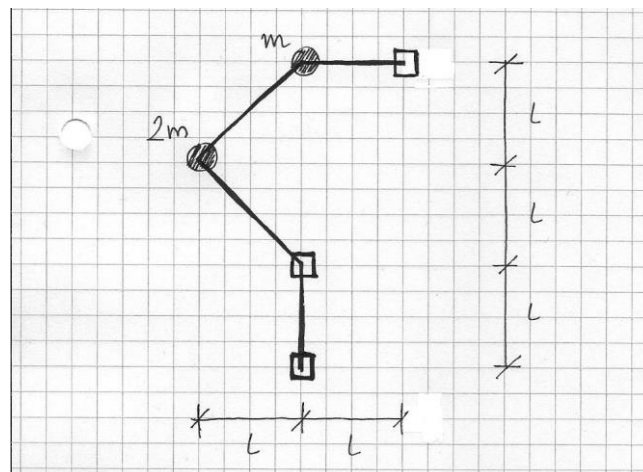


Fig. 1.