

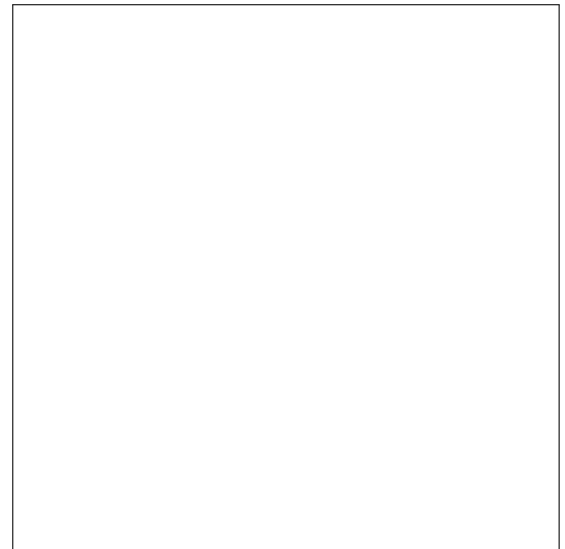
PRACTICE REPORT 2	
NAME AND SURNAME	GROUP

1. Statement and analytical resolution of the unknowns

Draw the free body diagram (FBD) of the idealized system in static equilibrium posed in the guide. Use the following notation for the balancing forces:

- \vec{T}_{BE} : force acting on the branch BE of the cable.
- \vec{T}_{BF} : force acting on the branch BF of the cable.
- \vec{W}_G : gravitational force due to the mass of the movable frame.
- \vec{W}_P : gravitational force of the external load applied at C.
- \vec{R}_A and \vec{R}_D : reactions at the support points A and D.

Do it inside this frame →



2. Statement data.

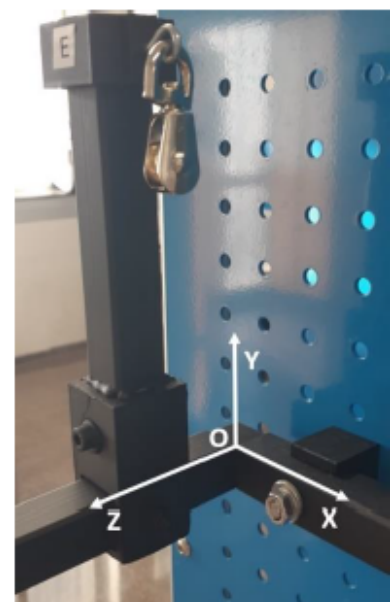
TABLE (A). Data provided by the teacher

Bx (mm) =	
Cx (mm) =	

$\ (N) = \vec{P}$	
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TABLE (B). Data obtained by the student about the real system

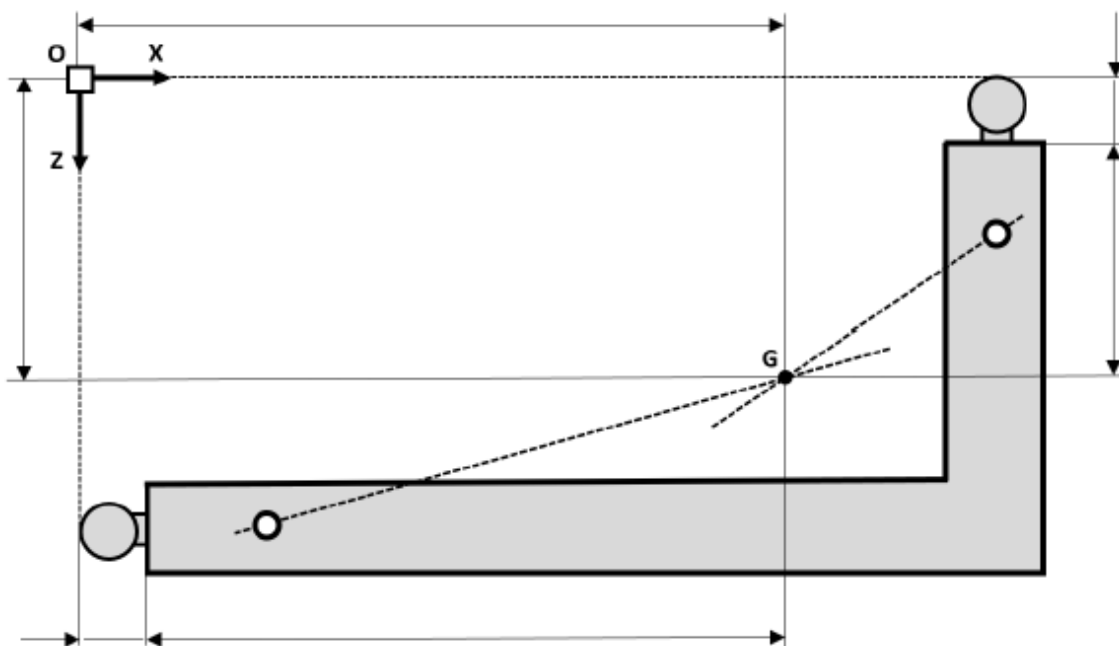
	x	y	z
A (x,y,z) (mm) =			
B (x,y,z) (mm) =			
C (x,y,z) (mm) =			



	x	y	z
D (x, y, z)(mm) =			
E (x, y, z)(mm) =			
F (x, y, z)(mm) =			

3. TABLE (C). Experimental assessment of the center of mass G of the movable frame and its mass m_G

	x	y	z	m_G (kg) =
G (x,y,z) (mm) =				



4. TABLE (D) Results obtained. Consider $g = 9.8 \text{ m/s}^2$

C: m_P (kg) =		\Rightarrow	$\ (N) \ = \vec{P}$	
G: m_G (kg) =		\Rightarrow	$\ (N) \ = \vec{W}$	
E: m_E (kg) =		\Rightarrow	$\ (N) \ = \vec{T}$	

Vectors:

\vec{T}_{BE} (N) =	
\vec{T}_{BF} (N) =	

Teacher's approval



ANALYTICAL SOLUTION: Entire procedure done by hand (MANDATORY)



A large empty rectangular box with a thin black border, intended for the student to write the practice report.

2. Assembly of the equivalent real system and validation of results

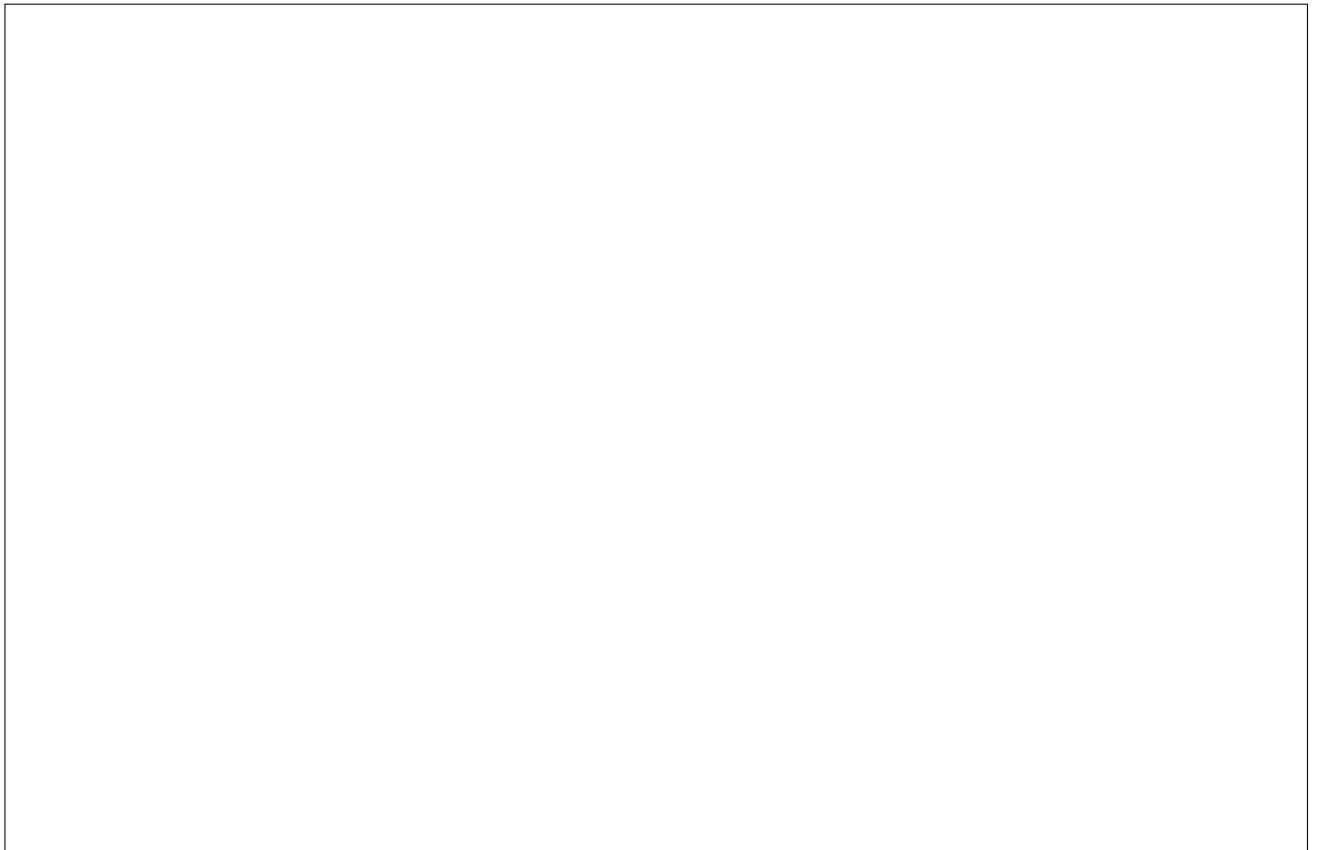
When you consider that the result obtained on the panel is correct, notify the teacher to validate it. **MANDATORY STEP. WITHOUT HIS/HER APPROVAL THE SUBMITTED REPORT WILL NOT BE VALID.**

Teacher's approval



3. Evaluation of the results

Explain, with reasoning, why you consider that the result of the real system versus the idealized one is acceptable. Identify the possible causes of its discrepancy.



4. Evaluation of the practice

Complete the following sentence: *This practice seemed to me ... and allowed me to ...*

