regunta <b>1</b>	
o s'ha respost encara	
untuat sobre 10,00	
Consider a prismatic 3D bar structure made up of two equilateral triangles of side length $l=2755mm$ , on the bar and height $h=3414mm$ , as showed in the figure. We mesh the structure with nodes and elements as presented Young modulus in each bar is $E=150000N/mm^2$ and its sections have area $A=250mm^2$ . We consider all except the node 5 where a force $P=\left(30000,30000,-30000\right)N$ is loaded. Answer the following questions: (a) (3 points) The value of $K_{42}^3$ is	there. Suppose that
OLeave it empty (no penalty)	
O-8.0123e+03	
O-5.8940e+03	
O-7.7223e+03	
O-1.9169e+03	
Hint1: The value of $K^3_{22}$ is 1.020871e+04 (b) (4 points) The absolute value of the y-displacement of the node 5 is OLeave it empty (no penalty)	
○9.4934e+00	
○4.9458e+00	
O1.1771e+00	
O4.9296e+00	
Hint2: The absolute value of the z-displacement is 2.7312e+00 (c) (3 points) Now consider that, except the three elements of the basis, the rest of the elements change its section $A=150mm^2$ . Then the absolute value of the y-displacement of the node 5 is $\bigcirc 9.6488e+00$ $\bigcirc 8.2430e+00$ $\bigcirc 3.6898e+00$	n area to
O5.6116e+00	
OLeave it empty (no penalty)	
Hint3: The absolute value of the x-displacement is 5.7941e+00	
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1 de 2 11/5/22, 7:58