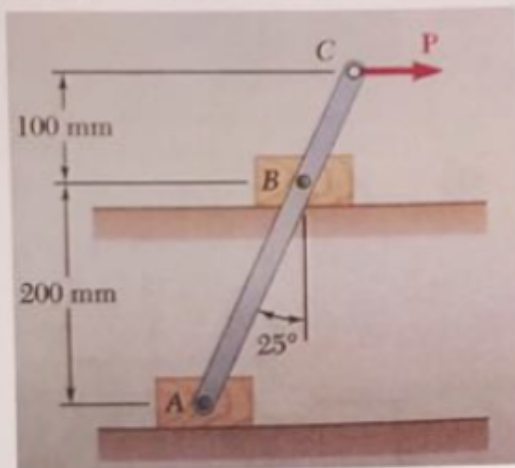


Q2. (10 points) Read the full question. You need to solve for full credit.



The blocks A and B weigh 10 kg each and are resting on flat surfaces as shown. The blocks are connected by a single rod attached to the centers of the blocks with standard pin joints. The angle that this connecting rod makes with the vertical is 25 degrees as shown. If the coefficient of static friction between the blocks and the surfaces they are resting on is 0.2, what is the minimum force P required to cause the blocks to slide?

Writing the correct, complete equations required to answer the above question is worth 7 points.

Solving all the way to correctly find P is 2 more points. Is there another possibility of motion apart

from the blocks sliding? What is it? How do you know this does not happen before the blocks start sliding? (1 point).