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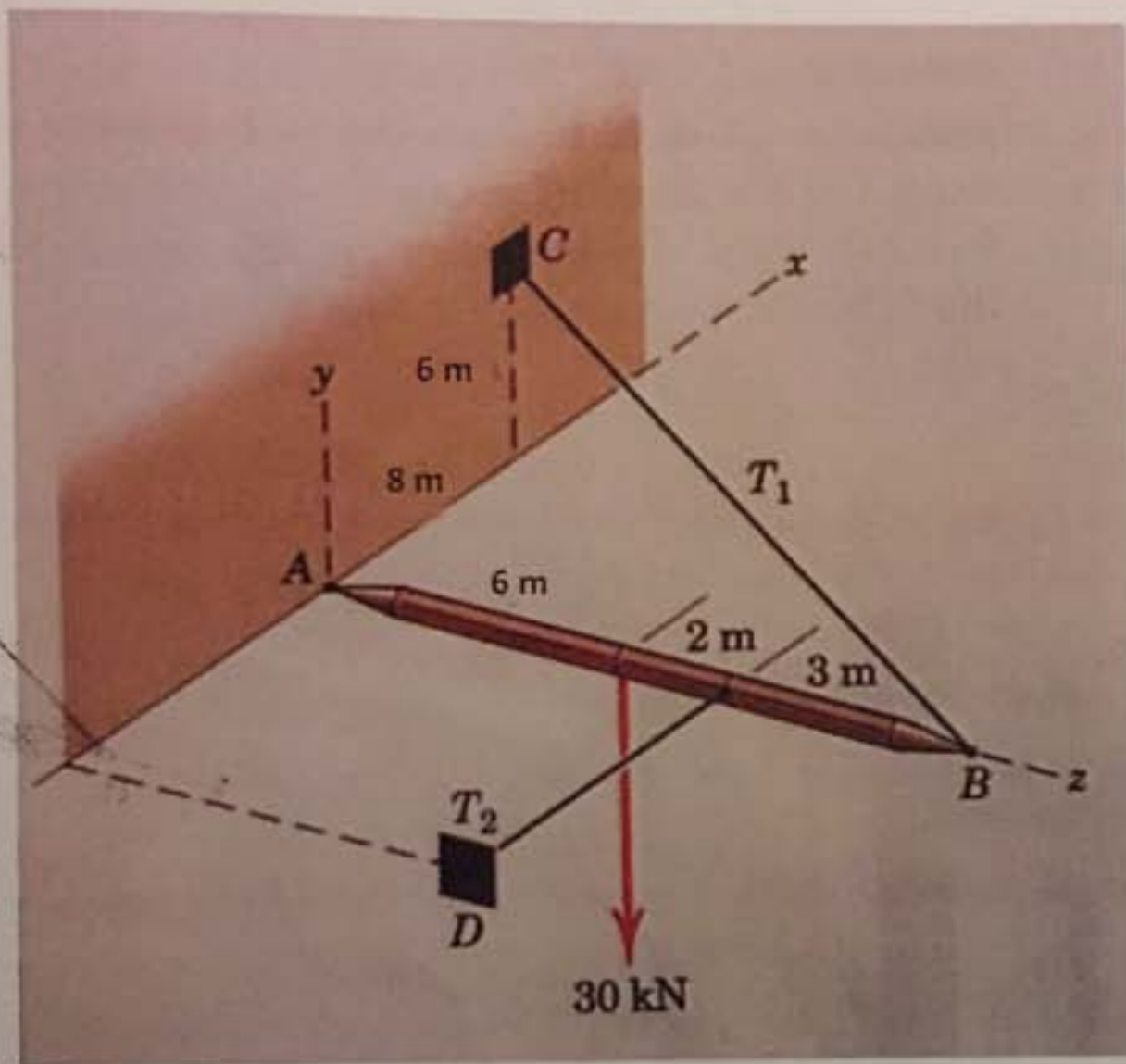
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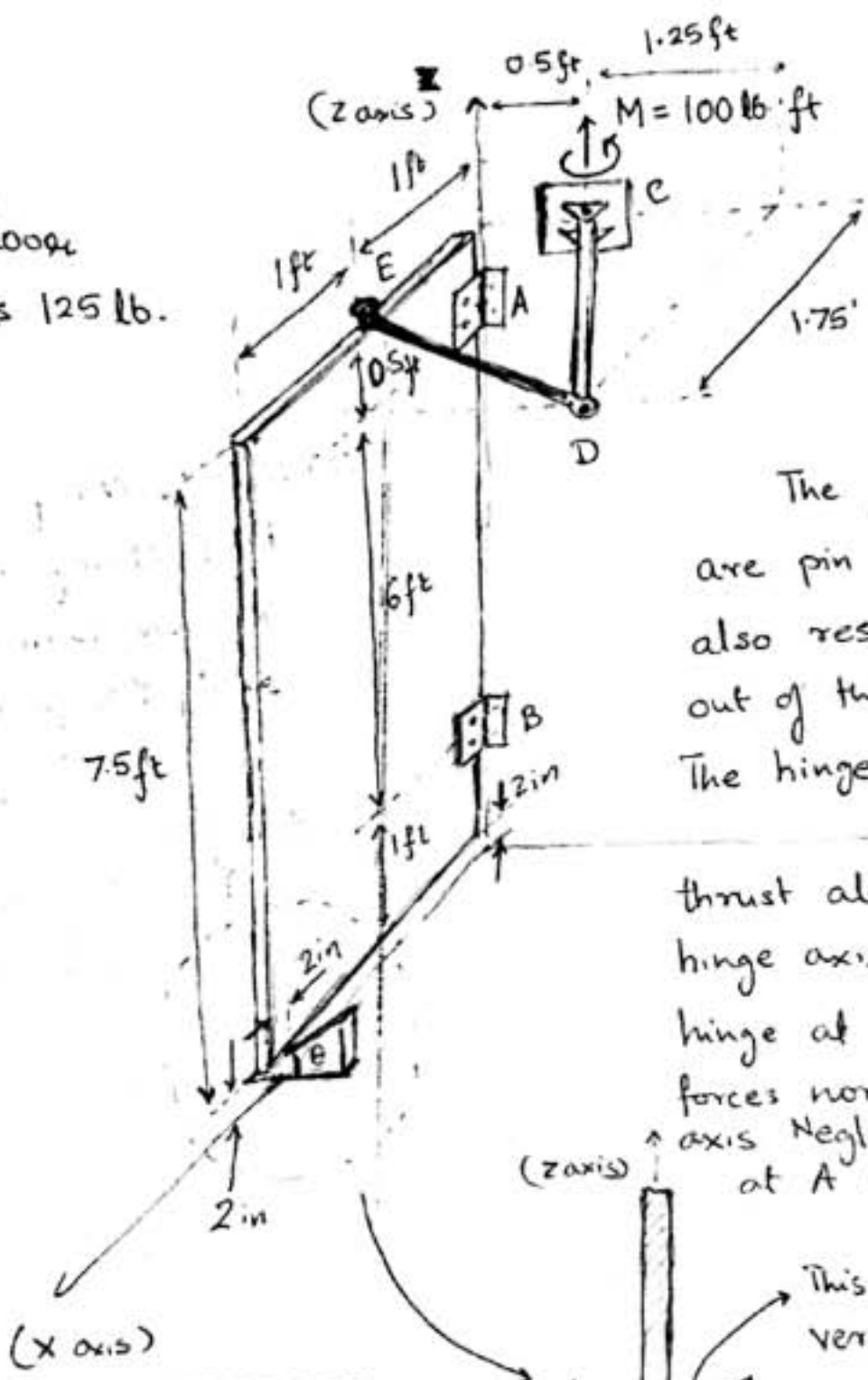


The rod AB has a weight of 200 kg and is supporting a vertical force of 30 kN as shown. Find the reaction at the ball and socket joint at A and the tensions in the two strings (T_1 and T_2).

Q2. 10 points.

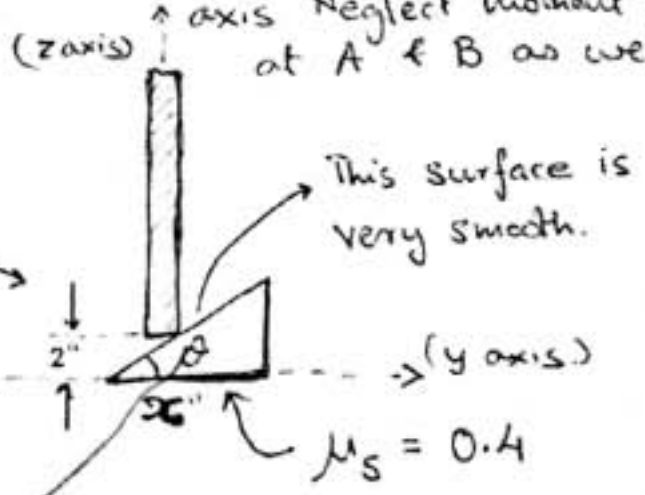
P.2

The door weighs 125 lb.



The joints at C, D are pin joints that also restrict motion out of the XY plane. The hinge at A supports

thrust along the hinge axis Z, while the hinge at B supports forces normal to the hinge axis. Neglect moment reactions at A & B as well.



- Find reactions at A, B
- and the normal reaction



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