Ď Consider the homogeneous of disks A and B with ma > mb and RA > RB. The disks are released from rest. Circle the answer below that most accurately describes the relative size of the angular acceleration of the centers of the two disk, of and de on release. RA/ MA No Reop No slip No SID 10 10 Let's just look at disk A my E ZMC: (MAYSINO) RA = ICZA $I_{c} = \frac{1}{2} m R_{A}^{2} + m R_{A}^{2}$ 00 ٦f $d_{A} = \frac{MAGSINOLA}{3_{J_{A}}MAR_{A}^{2}}$ NA $dA = \frac{2}{3} \frac{q}{RA}$ if we do the same for B 3B= 2/3 9/RB The & is a function of radius and not of mass 3A = 2/38/RA 28 = 2/3 8/RO LA 2RO then are to Ans





You are on a cart that is initially at rests on a smooth track. You throw a ball at a partition that is rigidly mounted on the cart. It the ball bounces off the partition 4) as shown in the figure, then at the instant shown in the figure >V -0 -20 Ο Ο M= mass of ball M= mass of man + cart Ø E) O NZ 0 0 Ο 1NI Nz FOD & impact FGO initially Momentum is conserved for system in 1/x" direction MVcgrt, 1x + MVcall, 1x = MVcart, 2x + MVsall, 2x 1) Veart, 2x = - At Veallizt m