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Physics Challenging Problems

**Q** The uniform wheel of moment of inertia  $I$  shown in figure is pivoted on a horizontal axis through its center so that its plane is vertical. As shown, a small mass  $m$  is stuck on the rim of the wheel. The angular accelerations of the wheel when the mass is at point  $A$ ,  $B$  and  $C$  are  $\alpha_A$ ,  $\alpha_B$  and  $\alpha_C$  respectively. Which of the following statement is correct?

(A)  $\alpha_A > \alpha_B > \alpha_C$   
(B)  $\alpha_A > \alpha_C > \alpha_B$   
(C)  $\alpha_C > \alpha_A > \alpha_B$   
(D)  $\alpha_C = \alpha_A > \alpha_B$

Handwritten notes:  
 $\tau = I\alpha$   
 $\tau_A = mgR = I\alpha_A$   
 $\alpha_A = \frac{mgR}{I}$   
 $\tau_B = 0$

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