ROSE-HULMAN INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering

ES 204	2 epui. mem eg 12.	8	Mechanical Systems
Quiz -	- Le 13	Name:	
	A rigid body is rotating at 3 rad/s clockwise. Each \hat{k} components.	express the angular velocity as a vertex y x	ector in terms of it's \hat{i} , \hat{j}
2)	The uniform bar shown below has a mass of 6 center of gravity of 0.5 kg-m ² . At the instant sl kinetic energy of the bar at this instant?	kg, a length of 1 m and a mass monown the bar has an angular veloc	ment of inertia about its ity of 4 rad/s. What is the
3) A	An 10 kg object <u>rolls without slipping on a horiza</u> a) velocity of the point of contact	zontal fixed surface. What is the:	
	b) work done by the friction force		

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