

## PROBLEM 10



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Description		
Two vertical bars of length $l$ are pivoted at their bases to a horizontal base. A link of length $l$ connects the upper ends of the bars. The bars are initially vertical and are then displaced by a small angle $\theta$ from the vertical. Determine the angular velocity of the bars when they are vertical again.		
Assumptions		
1. The bars are rigid and of uniform mass $m$ .	2. The link is rigid and of uniform mass $m$ .	3. The base is fixed and frictionless.
Given Data		
Bar length	$l$	
Link length	$l$	
Bar mass	$m$	
Link mass	$m$	
Initial angle	$\theta$	
Required		
Angular velocity of the bars		