Mixed Exercise 4.01 Moments (Year 2 Applied Maths)

1	$^{ m O}$ A uniform rod PQ, has weight 300 N.It hangs in a horizontal position, supported by two light					
	inextensible strings at R and S, where $PR = 1.4$ m, and $RS = 1.5$ m. The tension in the string at S is 220 N. Calculate: (a) The tension in the string at R,					
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maths.com	(b) The length of the rod.					
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Find the largest weigh				
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3	9 A uniform ladder AB of length 4 m and mass 20 kg rests against a smooth vertical wall, with its feet						
	on a rough horizontal ground. The coefficient of friction between the ladder and the ground is μ .						
	The ladder is inclined at 60° to the horizontal. If a boy of mass $30~kg$ climbs up to the end B without						
7	it slipping, find the value of μ .						
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