4

A uniform rod AB has length 2a and weight W. The end A rests on rough horizontal ground and the

	pendicular to the rod. The rope and rod are in a vertical plane perpendicul	ar to the wall.
(i)	Show that $AC = \frac{18}{25}a$.	
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		••••••
reac	e magnitude of the frictional force at A is equal to one quarter of the matrix force at A .	agnitude of the nor
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reac	ction force at A .	agnitude of the nor
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reac	Show that the tension in the rope is $\frac{1}{4}W$.	
reac	ction force at A .	
reac	Show that the tension in the rope is $\frac{1}{4}W$.	
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Find expressions, in terms of W , for the magnitudes of the normal reaction forces at A and B .
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