

A uniform square lamina ABCD of side 4a and weight W rests in a vertical plane with the edge AB inclined at an angle θ to the horizontal, where $\tan \theta = \frac{1}{3}$. The vertex B is in contact with a rough horizontal surface for which the coefficient of friction is μ . The lamina is supported by a smooth peg at the point E on AB, where BE = 3a (see diagram).

(i)	Find expressions in terms of W for the normal reaction forces at E and B .	[5]
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(ii)	Given that the lamina is about to slip, find the value of μ . [3]