

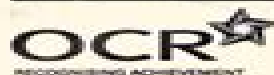
- 7 A and B are two points on a line of greatest slope of a plane inclined at 45° to the horizontal and $AB = 2$ m. A particle P of mass 0.4 kg is projected from A towards B with speed 5 m s^{-1} . The coefficient of friction between the plane and P is 0.2 .

(i) Given that the level of A is above the level of B , calculate the speed of P when it passes through the point B , and the time taken to travel from A to B . [7]

(ii) Given instead that the level of A is below the level of B ,

(a) show that P does not reach B , [3]

(b) calculate the difference in the momentum of P for the two occasions when it is at A . [4]



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